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SEASIDE BASIN WATERMASTER MEMORANDUM 2014-02

Date: November 7, 2014
To: Seaside Basin Watermaster
From: Jonathan Lear, PG, CHg, Senior Hydrogeologist
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Subject: Water Year 2014, Groundwater-Quality and Groundwater-Level Data Collected for the Seaside Groundwater Basin Watermaster

SUMMARY

This memorandum transmits and summarizes groundwater-quality and groundwater-level data collected for the Seaside Groundwater Basin Watermaster Board (Watermaster) during Water Year (WY) [1] 2014. This report incorporates the data that were collected and reported for each quarter during the period from October 1, 2013 through September 30, 2014. This information is being provided to the Watermaster for information purposes, and is in compliance with the monitoring protocols described in the Watermaster's *Seaside Basin Monitoring and Management Program* (SBMMP, revision date September 5, 2006), which was prepared in response to the court decision filed March 27, 2006 (as amended by February 9, 2007 filing) in the Seaside Basin adjudication case. This document has been prepared by the Monterey Peninsula Water Management District (MPWMD) on behalf of the Watermaster.

This document is organized into the following four categories of data:

- Precipitation,
- Streamflow in Arroyo Del Rey,
- Water-quality data collected from MPWMD and other basin wells, and
- Static water levels collected from MPWMD and other Watermaster basin wells.

[1] The WY begins on October 1, and ends September 30 of the indicated year.

PRECIPITATION

A continuous-recording precipitation gage is located at the south eastern corner of the Southern Coastal Subarea of the Seaside Groundwater Basin (Basin). Data from the precipitation gage are posted to the www.weatherunderground.com website and are available real time as well as archival data sets. **Figure 1** shows the location of the weather station and the average annual rainfall totals for the Basin. **Figure 2** shows daily and cumulative rainfall recorded by the weather station for all four quarters of WY 2014. Average annual rainfall for the location of the weather station is 16 inches. As **Figure 2** illustrates, at the close of WY 2014, the weather station had logged 8.47 inches, which is approximately 53% of normal rainfall.

STREAMFLOW

There is a distinct lack of surface drainages in the Basin due to the high infiltration capacities of the dune sands which overlie the aquifers in much of the Basin. The overlying soils have the capacity to infiltrate large storm events; therefore, water does not typically concentrate into channels. The Arroyo Del Rey drainage is formed over less permeable materials and is the largest drainage in the Basin. The headwaters of the drainage are in the Laguna Seca Subarea, which flow into the Southern Coastal Subarea of the Basin and collect in Roberts Lake.

A continuous streamflow gage was operated by the USGS in Del Rey Oaks Park from 1966 to 1978. MPWMD re-occupied the site in 2002 and data collection is ongoing. The catchment area above the gage is 13.8 square miles. **Figure 3** contains the average daily flow record for the Arroyo Del Rey at Del Rey Oaks gaging station for WY 2014.

WATER-QUALITY DATA: MPWMD AND OTHER BASIN WELLS

MPWMD Coastal Monitor-Well Network

Under the current monitoring program conducted for the Watermaster, the MPWMD collects *quarterly* samples from six monitor wells at three locations that are closest to the coastline, and *annually* from six additional wells at three locations that are farther from the coastline. The well numbers, names and sampling schedule for the MPWMD coastal monitor wells currently being sampled for the Watermaster are listed below.

MPWMD Coastal Monitor Wells

Well Number	Well Name	Sample Interval
15S01E15N3	MSC-Shallow	quarterly
15S01E15N2	MSC-Deep	quarterly
15S01E15F1	PCA-W-Shallow	quarterly
15S01E15F2	PCA-W-Deep	quarterly
15S01E11Pa	FO-09-Shallow	quarterly
15S01E11Pb	FO-09-Deep	quarterly
15S01E15K5	PCA-E-Shallow	annually
15S01E15K4	PCA-E-Deep	annually
15S01E23Ca	Ord Terrace-Shallow	annually
15S01E23Cb	Ord Terrace-Deep	annually
15S01E12Fa	FO-10-Shallow	annually
15S01E12Fc	FO-10-Deep	annually

These sites are shown on **Figure 4** and completion data for these wells are shown in **Table 1.** At each site, a "shallow" and "deep" monitor well have been installed (either in separate boreholes or as multiple completions in a single borehole), generally corresponding to well completions within the two principal aquifer units that have been historically recognized in the Basin, the Paso Robles Formation (QTp or QTc for undifferentiated Continental Deposits) and Santa Margarita Sandstone (Tsm), respectively[2]. More recently, it has been recognized that the Tsm deposits transition to the Purisima Formation (Tp) in the Northern Coastal Subarea of the Basin. The monitor wells are constructed of 2-inch PVC casing, with screens adjacent to the more permeable (i.e., based on lithologic and geophysical logging analyses) sand "packages" within each aquifer unit. The aquifer units are separated from each other in the wells by cement strata-isolation seals.

MPWMD Coastal Monitor Wells Water-Sample Collection

Water-sample collection from the MPWMD coastal monitor wells for WY 2014 was accomplished by the Low-Flow Method. As a means to investigate alternative water-quality sampling technologies, MPWMD staff completed a test of different "low-flow" sampling methodologies in 2009. Motivation behind changing the sampling method included a desire to: (a) switch to a less invasive sampling method to prolong the life of the monitoring wells and (b) implement a less labor-intensive method that will be more cost effective to the Watermaster in the long run. Details of this sampling methodology are described below. This methodology is used for ongoing sampling of all MPWMD monitor wells, unless site specific conditions preclude this.

[2] An exception is at the Ord Terrace site, where the shallow and deep monitor wells are completed in the upper Tsm and lower Tsm, respectively. Currently, sampling is only conducted at the shallow well; there are no distinct differences in water quality in the upper and lower Tsm at this location.

- **Low-Flow Sampling Method**

The low-flow/low-volume purging method is performed using a pumping mechanism that produces low-flow rates [less than 1 liter per minute (L/min) or less than 0.26 gallon per minute (gpm)] that cause minimal drawdown of the static water table and usually employs a flow cell in which geochemical parameters are continuously monitored. These parameters may include dissolved oxygen content, oxidation-reduction potential (redox), conductivity, turbidity, and/or pH. The intent of this sampling protocol is to collect a representative sample from the monitored groundwater zone. A representative sample may be obtained when all the monitored chemical parameters have stabilized, thus quantitatively demonstrating that the sample being collected is in equilibrium with the groundwater system. The low-flow/low volume purging method (purging to parameter stability) tends to isolate the interval being sampled, which provides more accurate water-quality measurements and reduces the volume of purge water generated. This method has an advantage in that it can limit vertical mixing and volatilization of any volatile organic compounds (VOCs) in solution within the well casing or borehole, as compared to high-flow purging and sampling (e.g., air-lift sampling method).

Figure 5 illustrates the QED Environmental Systems, Inc. low-flow sampling equipment. The bladder pump is placed in the monitor well and powered by a fuel source of compressed gas. The peristaltic action of the pump lifts water from the well and initiates flow through the well screen at the location where the drop tube and intake assembly have been placed. An electric wire sounder is used to measure drawdown to insure minimal drawdown is caused by pumping the well. Water-quality parameters are monitored at the flow cell as the well is purged.

The low-flow/low-volume purging method of sample collection has been described in groundwater monitoring literature since the mid-1980s with a defined methodology being accepted by the U.S. EPA in 1995. These protocols are summarized below as adopted by MPWMD staff:

1. **Flow rate**

The flow rate used during purging must be low enough to avoid increasing the water turbidity. The following measures should be taken to determine the appropriate flow rate: (a) the flow rate shall be determined for each well, based on the hydraulic performance of the well; (b) the flow must be adjusted to obtain stabilization of the water level in the well as quickly as possible; (c) the maximum flow rate used should not exceed 1 liter per minute (0.26 gpm); (d) once established, this rate should be reproduced with each subsequent sampling event; and (e) if a significant change in initial water level occurs between events, it may be necessary to re-establish the optimum flow rate at each sampling event.

2. **Measurement of water level and drawdown**

Measurement of the water level in the well during purging is important when establishing the optimum flow rate for purging. The goal is to achieve a stabilized

pumping water level as quickly as possible with minimal drawdown, to avoid stressing the formation and mobilizing solids, and to obtain stabilized indicator parameters in the shortest time possible.

3. **Measurement of indicator parameters**

Continuous monitoring of water-quality indicator parameters is used to determine when purging is completed and sampling should begin. Measurement of indicator parameters (e.g., dissolved oxygen content, redox potential, specific conductance, temperature and pH) is required. This is most easily performed using an in-line flow cell (closed) system attached directly to the pump discharge tubing. For turbidity measurement, a separate field nephalometer should be used.

If portable systems are used, they must be placed carefully into the well and lowered into the screen zone as slowly as possible. Placement of the portable pump can disturb the groundwater flow conditions resulting in non-equilibrium conditions. As a result, longer purge times and greater purge volumes may be necessary to achieve indicator parameter stabilization. In general, this may require that after installation, the portable pump should remain in place for a minimum of 1-2 hours to allow settling of solids and re-establishment of horizontal flow through the screen zone. If initial turbidity readings are excessive (>50 NTU), pumping should cease and the well should rest for another 1-2 hours before initiating pumping again. In wells set in very fine-grained formations, longer waiting periods may be required. Continuous water-level measurement devices are preferred, such as down-hole pressure transducers, but electronic water-level tapes can be used. The devices used should be capable of measuring to 0.01-foot precision.

4. Sample Collection

Water samples for laboratory analyses must be collected before water has passed through the flow-through cell (use a by-pass assembly or disconnect cell to obtain sample). VOC samples (if collected) should be collected first and directly into pre-preserved sample containers. All sample containers are filled by allowing the pump discharge to flow gently down the inside of the container with minimal turbulence. During purging and sampling, the tubing should remain filled with water so as to minimize possible changes in water chemistry upon contact with the atmosphere.

MPWMD Coastal Monitor Wells Water-Quality Results

Water chemistry analytical results for the samples collected during WY 2014 are provided in the table in **Appendix 1**. This table and other water-level data tables were prepared utilizing the "report" feature of the Watermaster Database.

In general, the WY 2014 chemical data from these monitor wells do not show significant changes relative to the results provided in WY 2013, and are not currently indicative of seawater intrusion into the basin at the locations and depths of the monitor well completions. Water sampled via the

low-flow method is extracted near the bottom of the screen, where the pump intake is located. The low-flow pump intakes are located near the screen bottom to facilitate early detection of a seawater intrusion wedge that would be presumed to first approach the lowest portion of the screens in the coastal monitor wells. Additional discussion and conclusions regarding these sample testing results is contained in the Water Year 2014 Seawater Intrusion Analysis Report (SIAR WY2014) prepared by Hydrometrics, LLC.

Other Basin Monitor and Producer Wells Water-Quality Results

Water chemistry analytical results for the samples collected from other Basin monitor wells and producer wells during WY 2014 are also provided in the table in **Appendix 1**. These include: (a) annual sample results from coastal and inland monitor wells that were added as part of the monitoring well network enhancement study that was conducted by MPWMD for the Watermaster in 2007; (b) annual sample results for the active Watermaster producer wells in the coastal subareas of the Basin that are required to collect these samples under the Watermaster's MMP; (c) annual sample results for the four dedicated coastal Watermaster Sentinel wells that were installed in 2007; and (d) periodic sample results from the inland Watermaster monitor wells that were installed in 2009.

WATER-LEVEL DATA: BASIN MONITOR AND PRODUCER WELLS

Basin monitor wells and basin producer active and inactive wells with water-level data collected during WY 2014 are provided in **Appendix 2**. The general locations of these wells are shown on **Figure 6**. The Watermaster has requested that producers collect and report "static", i.e., non-pumping, water-level measurements. The purpose for this is so these measurements will more closely approximate ambient groundwater-level conditions, and facilitate the plotting and trend analysis of well water-level hydrographs. Occasionally, water-level measurements have been collected and reported while the well was in operation. In some cases, this may be due to the fact that the well can not be taken offline to collect a static water-level measurement because of pumping demand requirements. These occurrences have been recorded in the comments section of **Appendix 2**. These water-level data were collected primarily with manual water-level sounding devices by producers or by the MPWMD on behalf of the Watermaster.

These water-level data have been entered into the Watermaster database. The table in **Appendix 2** was generated by querying the Watermaster database and using the report feature in MS Access. The table format for the WY 2014 report includes additional information relative to each well and its monitoring schedule. This format will be used as a template to improve the web-based reporting feature of the database.
It should be noted that the table in **Appendix 2** includes the "reference-point elevations" that were surveyed in 2008 or 2011 for each well, as part of work conducted for the Watermaster. The reference point elevations were established at the water-level data collection point at each wellhead. The reference point elevations are tied to the North American Vertical Datum of 1988 (NAVD88). The measurements in NAVD88 datum have been adjusted for the Watermaster's use

by subtracting 2.97 feet to conform to local Mean Sea Level (MSL) reference, based on data provided by the surveyor. The "depth to water" measurement at each well is subtracted from the "ref point" elevation to obtain the "water elevation" relative to MSL.

Water-level hydrographs for the MPWMD monitor wells located in the Northern Coastal Subarea and the Watermaster Sentinel wells are included in **Appendix 3**. The long-term hydrograph figures for the MPWMD monitor wells were generated to provide historical static water-level data for the wells with longer data records in the Seaside Groundwater Basin. The Sentinel well hydrographs are included to comply with monthly water-level reporting requirements.

It should be noted that in WY 2014, three formerly-used Cal-Am production wells in the Northern Coastal Subarea of the basin (i.e., Hilby MGT, Luxton, Military) were formally converted to monitor wells, and water-level monitoring data logger equipment has been acquired to obtain ongoing water-level data at these sites. In addition, water-level data logger equipment has been acquired to allow for collection of continuous water-level data from selected monitor wells in the Laguna Seca Subarea (per recommendation in the MMP).

CONCLUSIONS

- In WY 2014, chemical data for the MPWMD dedicated coastal monitor wells do not show significant changes in chemistry relative to previous samplings, and are not currently indicative of seawater intrusion into the basin at the locations and depths of these monitor wells. This conclusion continues to be supported by work completed this year for the Watermaster as documented in the WY 2014 Seawater Intrusion Analysis Report prepared by HydroMetrics, LLC.
- Based on the long-term water-level hydrographs for coastal monitor wells presented in **Appendix 3**, the trend of declining groundwater levels is continuing in the deeper Santa Margarita aquifer monitor wells, whereas groundwater levels have generally stabilized, and in a few cases displayed an overall increase in the shallower Paso Robles aquifer. The seasonal high water level peaks in the Santa Margarita monitoring wells for WY 2014 seen in these figures are lower than water levels from WY 2013. This difference is likely due to a dry winter and no water was injected into the Santa Margarita aquifer by the MPWMD and Cal-Am at the Aquifer Storage and Recovery sites in Seaside, compared to earlier wetter years.

RECOMMENDATIONS

- Given that there is now a five-year history of water-quality sampling results from the Watermaster monitor wells that were installed in 2009 at the inland Camp Huffman site on former Fort Ord (SBWM #5), it is recommended that the sampling frequency be continued on a triennial basis (i.e., once every three years). This is more frequent than the five-year

sampling recurrence interval recommended in the completion report for these wells[3], and will allow for periodic checking of any long-term trend changes in water quality at this remote inland location in the Basin.

- As a future monitoring enhancement, it is recommended that the feasibility of deploying an automatic-recording water-quality monitoring data logger in a coastal monitoring well should continue to be pursued in the event that a suitably rugged device can be acquired as a trial method using this technology.
- Reporting of water levels and quality should continue to be conducted semi-annually. Quarterly water-quality reporting is problematic due to the time required to process and analyze water-quality samples.
- Consideration should be given to locating available existing wells that may be added to the basin monitoring network to enhance the spatial coverage (e.g., two formerly-used Fort Ord monitor wells have recently been destroyed and are no longer available).
- Follow-up communications should be made to producers that have not consistently provided required water-level or water-quality monitoring data to the Watermaster (e.g., monthly water level data have not consistently been reported for several producer wells in the basin).
- Deployment of water-level monitoring data logger equipment at recently converted Cal-Am Northern Coastal Subarea production wells and at selected Laguna Seca Subarea dedicated monitor wells should continue in WY 2015.

[3] Feeney, M.B., 2010. *Seaside Groundwater Basin Watermaster Inland Monitoring Well Project, Construction of SBWM Monitoring Well #5.* Report prepared for SBWM, Jan 2010 (see pg. 15).

Table 1. Summary of Well Completions, MPWMD Coastal Seaside Basin Watermaster Wells.

SUMMARY OF MPWMD COASTAL SEASIDE BASIN GROUNDWATER QUALITY MONITOR WELLS

Site	Well Name	Location Description	Well Number	Date Drilled	DWR Drillers Log	Hole Depth (feet)	Well Depth (feet)	Screened Interval (feet)	Strata Seal (feet)	Casing Type	Geologic Unit	E-Log	Elevation (feet AMSL)
MSC		former MSC mine north of Playa Ave. and west of Hwy. 1											
	MSC-Shallow	approx. 10' S of north property line	15S/1E-15N3	5/25/1990	338413	720	695	490 - - 680	95 - 275	2" pvc	QTp	- - -	80.1
	MSC-Deep	approx. 7' E of MSC-Shallow	15S/1E-15N2	5/25/1990	338425	920	865	810 - 850	725 - 775	2" pvc	Tsm	yes	80.29
PCA WEST		former PCA mine W of Hwy. 1											
	PCA-W Shallow	approx. 200' SE of ocean bluff	15S/1E-15F1	3/28/1990	338400	600	585	525 - 575	120 - 150	2"pvc	QTp	- - -	64.22
	PCA-W Deep	approx. 50' E of PCA-W Shallow	15S/1E-15F2	3/90	338401	900	885	825 - 875	760 - 790	2" pvc	Tsm	yes	65.18
PCA EAST		vacant lot NE of Seaside High baseball field											
	PCA-E Shallow	approx. 300' E Monterey Rd, 50" N fence	15S/1E-15K5	4/16/1990	338402	863	410	350 - 400	110 - 150	2" pvc	QTp	- - -	68.51
	PCA-E Deep	(same borehole as shallow well)	15S/1E-15K4	4/16/1990	338402	863	710	650 - 700	580 - 620	2" pvc	Tsm	yes	68.54
ORD TERRACE		Ord Terrace School property south of Ord Grove Ave.											
	OT-Shallow	1700 block Ord Grove Ave.	15S/1E-23Ca	8/5/1999	- - -	530	340	280 - 330	0 - 260	2" pvc	upper Tsm	- - -	228.65
	OT-Deep	(same borehole as shallow well)	15S/1E-23Cb	8/5/1999	- - -	530	450	390 - 440	350 - 377	2" pvc	lower Tsm	yes	228.63
MPWMD #FO-09		E of Hwy.1, SE of Okinawa Rd.											
	#9-Shallow	50' east of utility service rd.	15S/1E-11Pa	8/16/1994	- - -	1,110	660	610 - 650	500 - 540	2" pvc	QTp (?)	- - -	118.89
	#9-Deep	(same borehole as shallow well)	15S/1E-11Pb	8/16/1994	- - -	1,110	840	790 - 830	700 - 765	2" pvc	Tsm (?)	yes	118.85
MPWMD #FO-10		south of Light Fighter Drive, behind Barker Theater Building											
	#10-Shallow	20' north of access road curb	15S/1E-12Fa	9/3/1996	- - -	1,500	650	620 - 640	480 - 500	2" pvc	QTp	- - -	200.85
	#10-Deep	(same borehole as shallow well)	15S/1E-12Fc	9/3/1996	- - -	1,500	1,420	1380 - 1410	1280 - 1300	2" pvc	Tsm (?)	yes	201.03

NOTES:

1. Official State well numbers end with a numeral; unofficial MPWMD well numbers end with a small case letter.
2. Geologic Unit refers to the unit adjacent to the screened interval: QTp = Paso Robles Formation; Tsm = Santa Margarita Sandstone.
3. Elevation refers to the water level reference point elevation surveyed by Central Coast Surveyors. For additional information, see "Documentation of 2008 Well Elevation Surveys", MPWMD Seaside Basin Watermaster Memorandum 2008-05.
4. Well completion data at site MSC are documented in "Installation of Monitoring Well Cluster, Monterey Sand Company", Staal, Gardner & Dunne, Inc. (SGD), July 1990.
5. Well completion data at sites PCA West and PCA East are documented in "Hydrogeologic Investigation, PCA Well Aquifer Test", SGD, July 1990.
6. Well completion data at site MPWMD FO-09 are documented in "Summary of 1994 Fort Ord Monitor Well Installations", MPWMD Technical Memorandum 94-07.
7. Well completion data at site MPWMD FO-10 are documented in "Summary of 1996 Seaside Basin Monitor Well Installations", MPWMD Technical Memorandum 97-04.
8. Two dashes (i.e., "- -") indicate multiple screened intervals.
9. Three dashes (i.e., "- - -") indicate not applicable or not available.

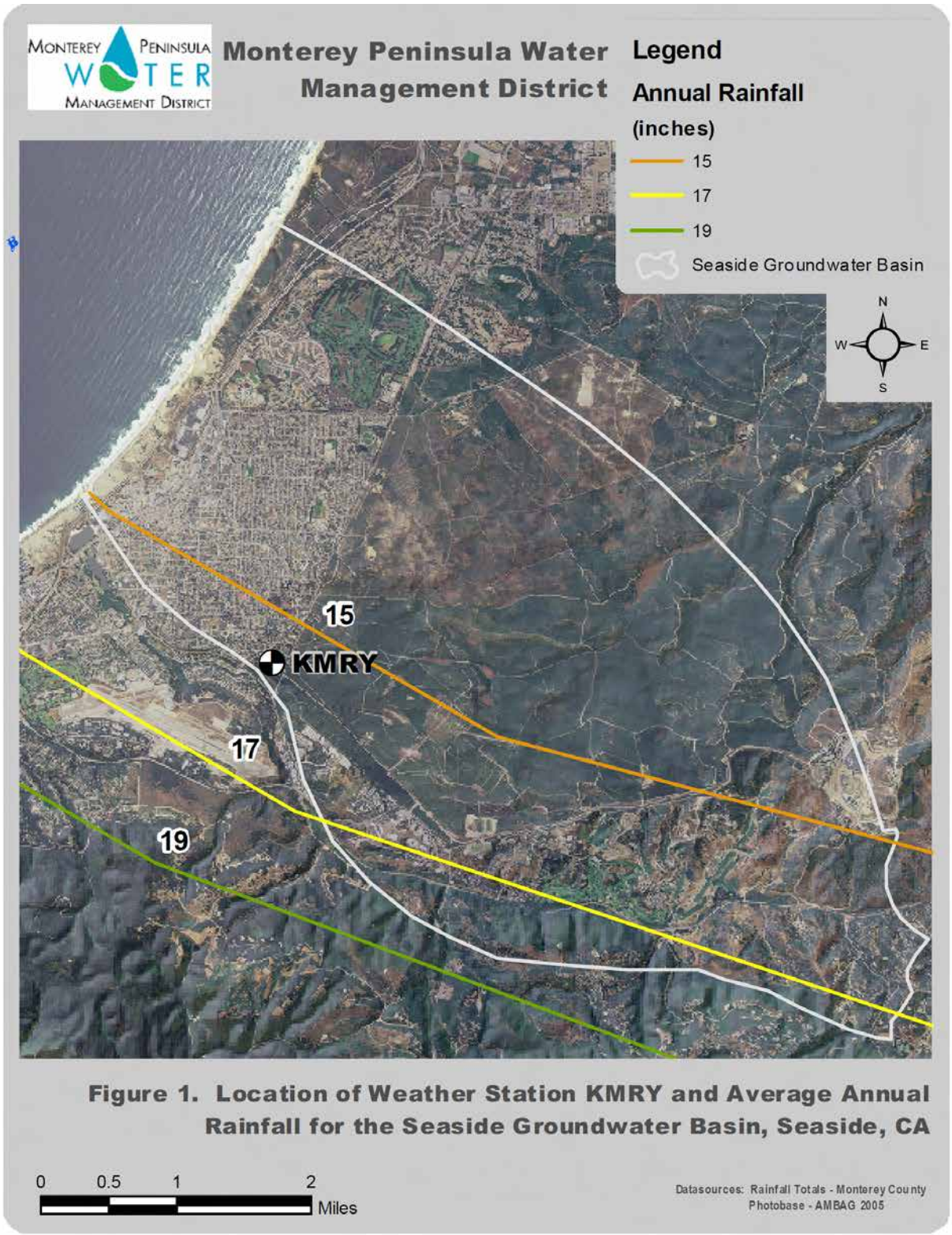

Figure 1. Location of Weather Station KMRY and Average Annual Rainfall for the Seaside Groundwater Basin, Seaside, CA

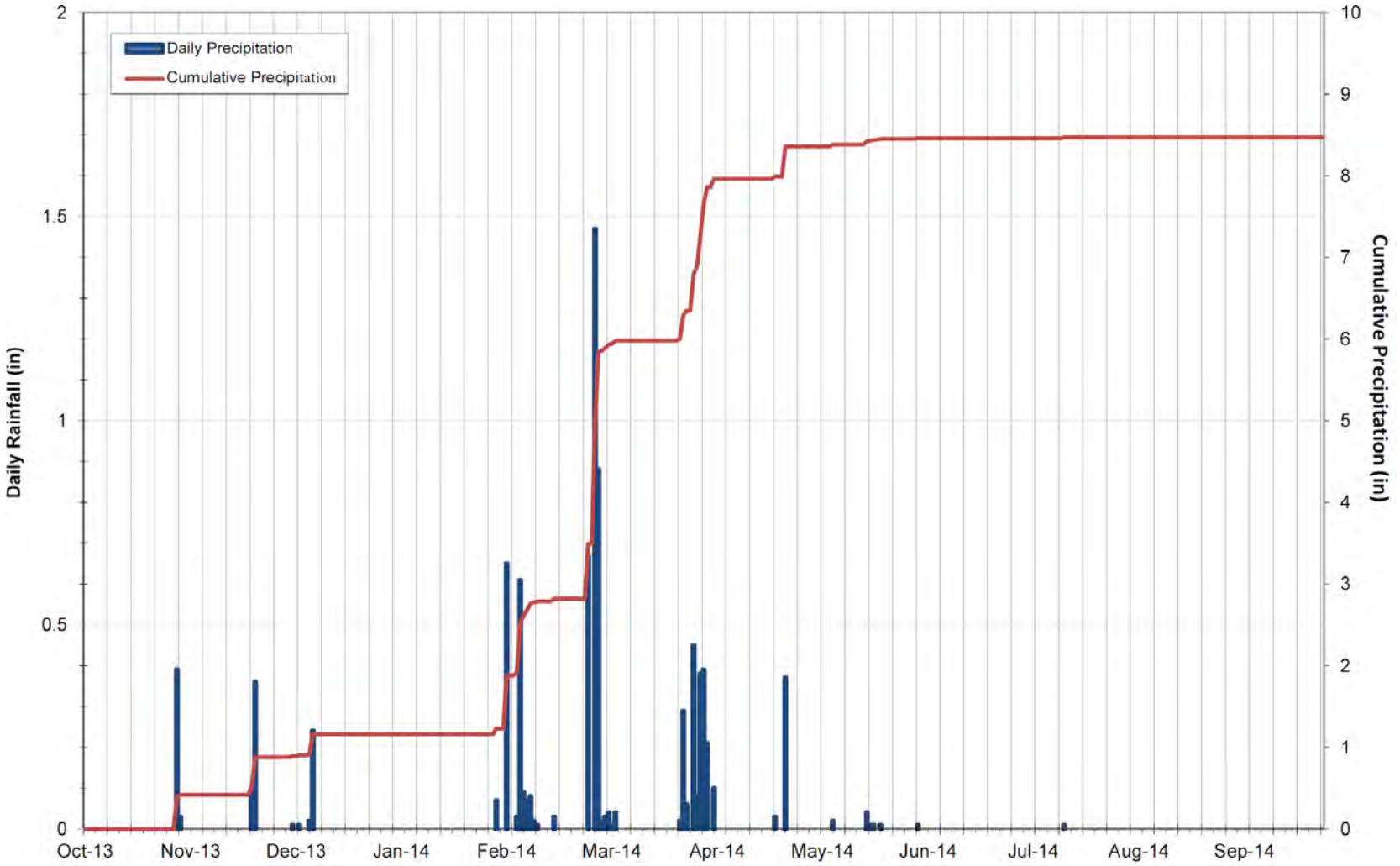

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Figure 2. Daily and Cumulative Rainfall for Water Year 2014 recorded at Weather Underground Weather Station KMRY, Seaside, California

Data from www.weatherunderground.com
Station Coordinates 36.59, -121.84

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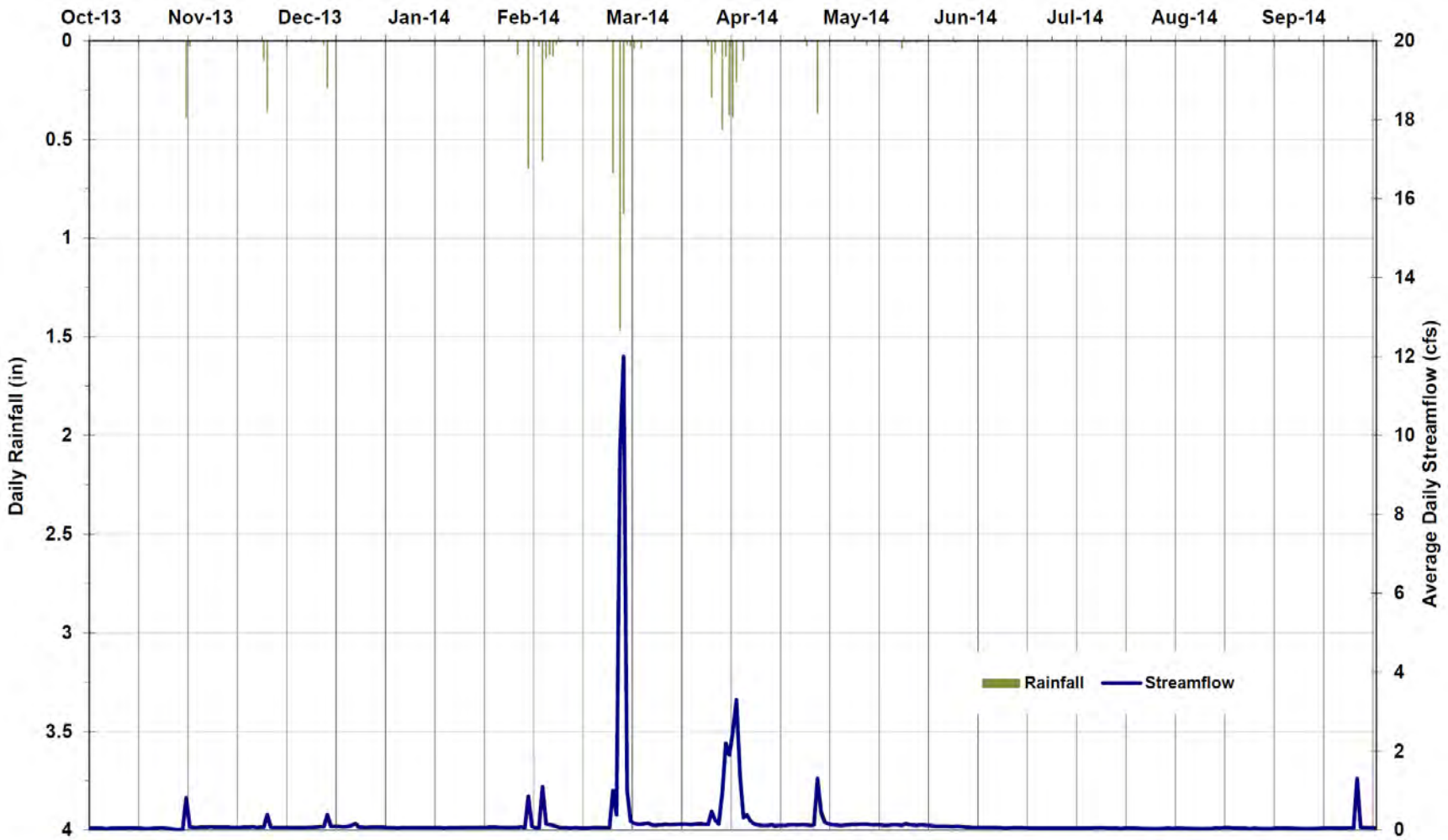

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Figure 3. Daily Rainfall at Weather Station KMRY and Average Daily Flow at Arroyo Del Rey at Del Rey Oaks Stream Gage for Water Year 2014 , Seaside, California

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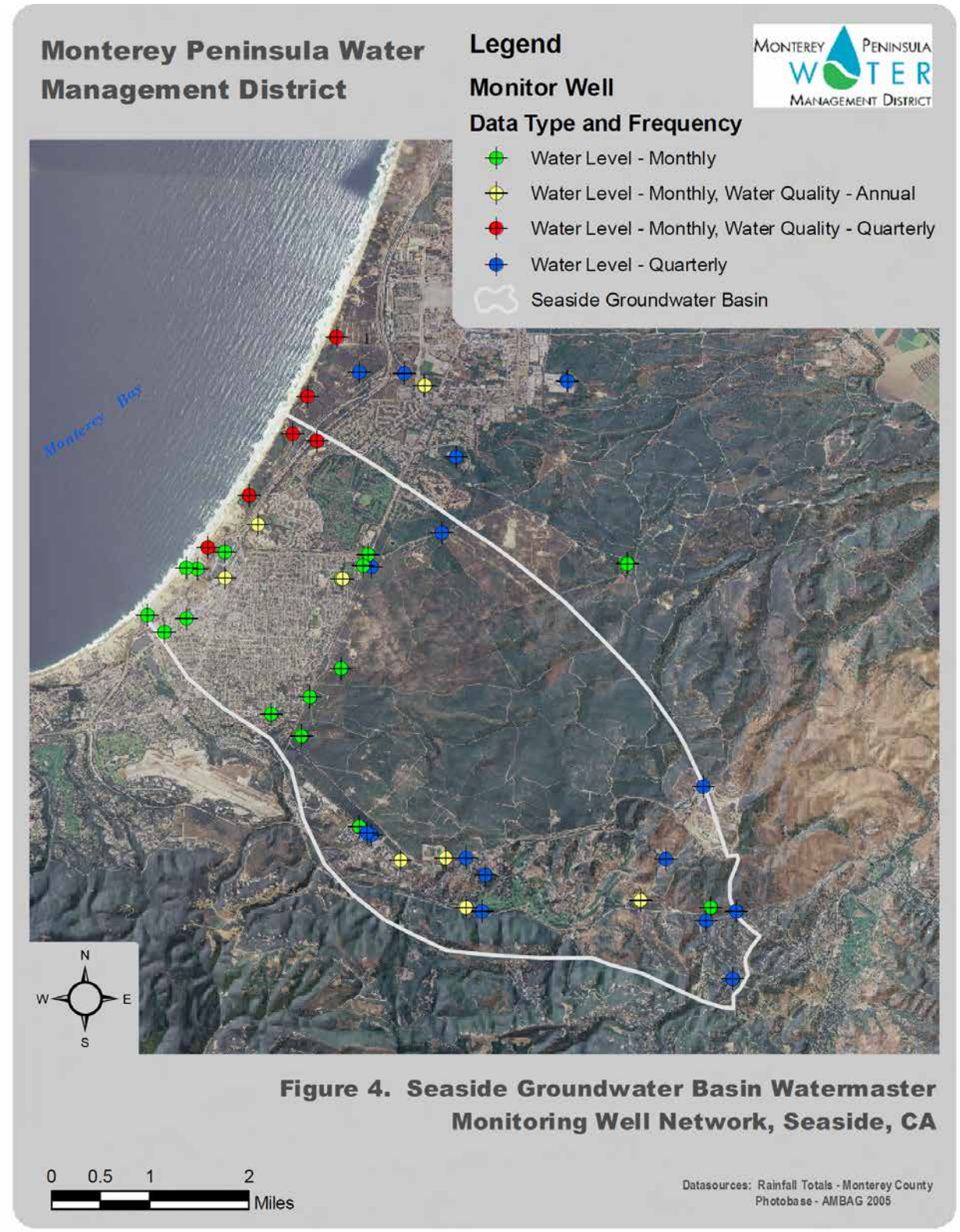


Figure 4. Seaside Groundwater Basin Watermaster Monitoring Well Network, Seaside, CA

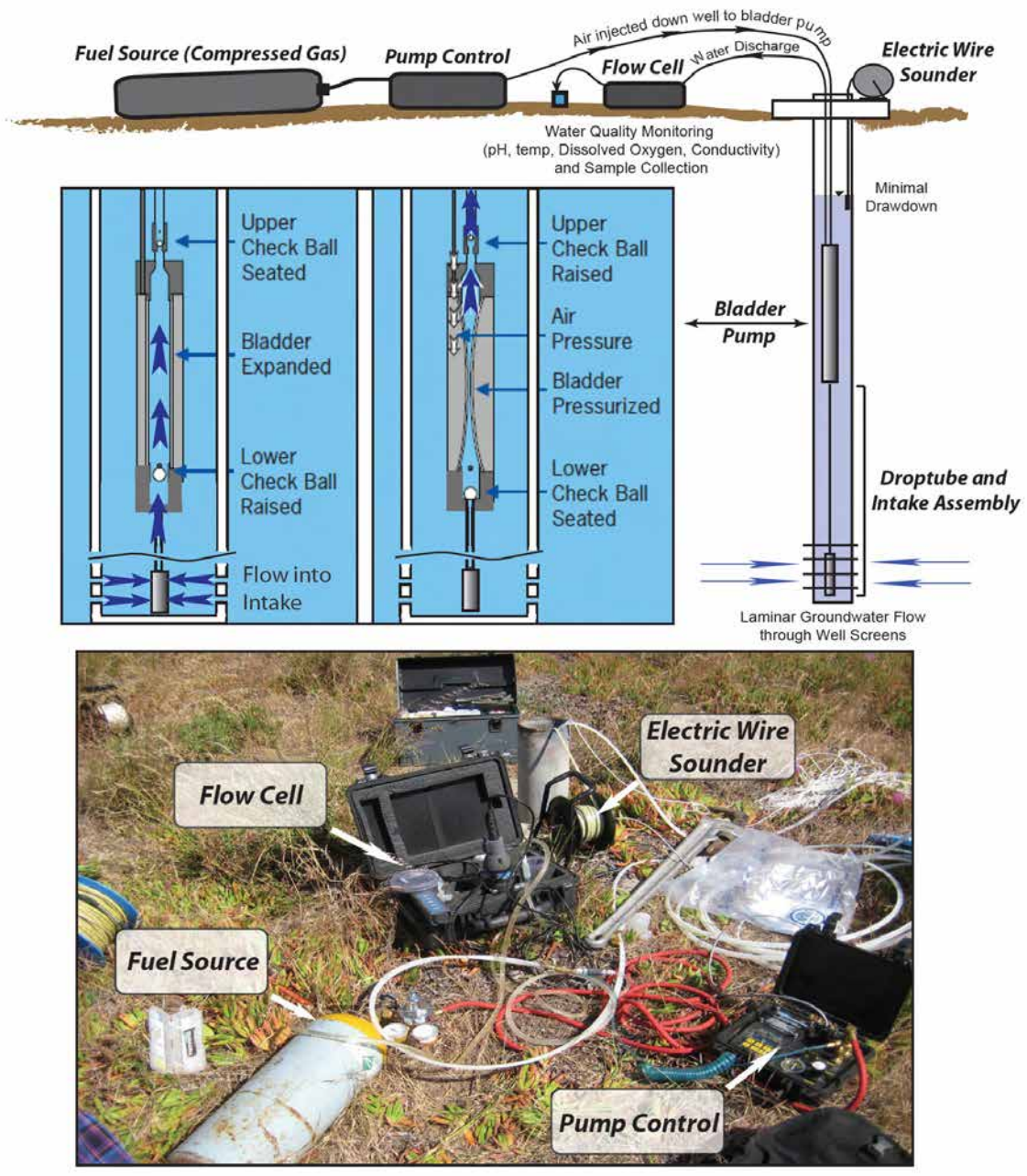


Figure 5. Low Flow Groundwater Sampling System Presented in Cartoon and Photograph

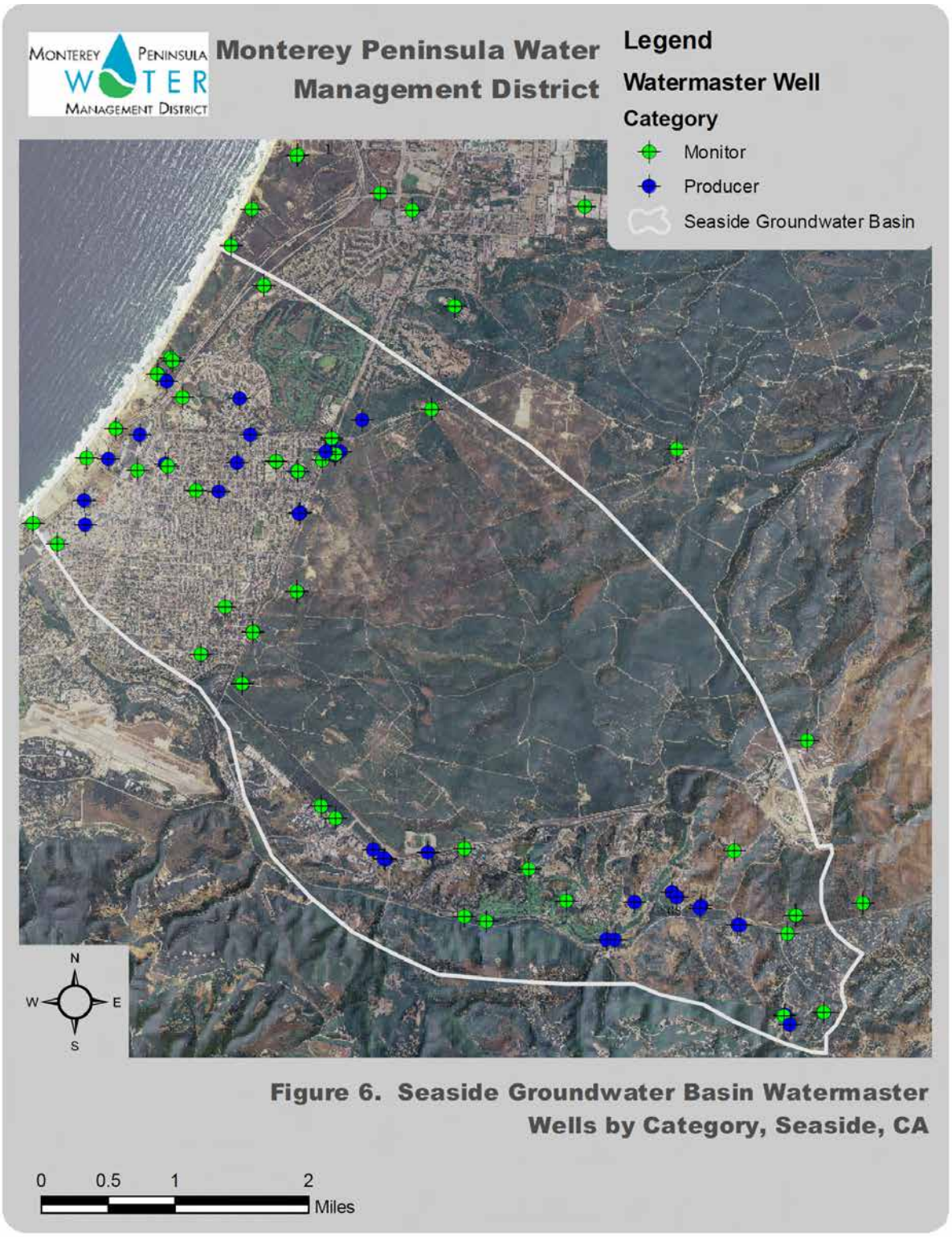


Figure 6. Seaside Groundwater Basin Watermaster Wells by Category, Seaside, CA

Appendix 1

Seaside Basin Groundwater Quakity Monitoring Results

for Water Year 2014

Seaside Basin Monitoring and Management Plan Water Quality Data for WY 2014

<0.1 = Not detected above detection limit of 0.1 mg/L all values in mg/L unless otherwise noted

Camp Huffman (D)

WM No. 250

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB18363	7/22/14	76	94	24	4.9	323	51	0.3	124	<1	0.017	0.066	<0.1	0.07	0.3	8	591	983

Camp Huffman (S)

WM No. 249

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB18362	7/22/14	58	84	19	3.9	148	13	<0.1	190	3	0.403	<0.010	<0.1	0.08	0.6	8.1	540	896

Cypress Pacific Prod

WM No. 150

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB17762	7/10/14	53	63	17	3.9	237	57	<0.1	94	<1	0.519	0.049	<0.1	0.09	0.2	7.6	468	797
AB11889	2/19/14	93	102	29	5.1	283	80	0.1	172	<1	1.308	0.099	<0.1	0.14	0.3	7.2	708	1152

Del Monte Test

WM No. 231

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
CA2710004	7/15/14	21	47.5	8	<5	110	14.7	0.15	57.9	<0.2	4.650	0.115	<0.25	<0.1	0.20		238	407

FO-09-Deep

WM No. 112

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB20599	9/11/14	23	53	4	3.6	120	<1	0.5	77	<1	0.506	<0.010	<0.1	<0.05	0.2	6.6	268	411

<0.1 = Not detected above detection limit of 0.1 mg/L all values in mg/L unless otherwise noted

AB17176	6/26/14	24	48	3	3.3	115	3	<0.1	64	<1	0.348	<0.010	<0.1	0.06	0.2	6.9	251	425
AB13392	3/25/14	25	52	4	3.5	106	12	0.1	62	<1	0.116	<0.01	<0.1	0.07	0.1	6.8	254	419

FO-09-Shallow **WM No. 111**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB20598	9/11/14	27	34	5	3.6	100	5	<0.1	60	<1	4.358	0.029	<0.1	<0.05	<0.1	7	206	338
AB17175	6/26/14	26	32	4	3.4	104	3	<0.1	50	<1	2.792	0.020	<0.1	<0.05	0.1	6.6	232	355
AB13391	3/25/14	26	32	4	3.4	88	11	<0.1	48	1	0.109	<0.01	<0.1	<0.05	<0.1	6.6	240	349

FO-10-Deep **WM No. 114**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB18745	7/31/14	20	38	3	3.3	73	15	<0.1	47	<1	0.830	0.014	<0.1	0.06	0.1	8.2	180	316

FO-10-Shallow **WM No. 113**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB18744	7/31/14	9	36	2	2.4	55	6	<0.1	41	<1	0.636	0.090	<0.1	<0.05	0.1	7.3	137	245

LS Driving Range **WM No. 141**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB18447	7/23/14	40	140	26	5.2	148	48	0.1	257	1	1.035	<0.010	0.1	0.09	0.8	6.5	663	1184

<0.1 = Not detected above detection limit of 0.1 mg/L all values in mg/L unless otherwise noted

LS Golf New #12 — **WM No. 203**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB17801	7/14/14	155	150	35	6	300	194	0.5	243	<1	0.303	0.046	<0.1	0.14	0.6	7.1	943	1566

LSRA #1 — **WM No. 197**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB71545	9/5/14	16	108	10	2.2	113	17	0.22	134	4	<0.1	0.051	1.1	0.11	0.3	6.4	395	626
AB17799	7/14/14	18	103	12	2.7	120	18	0.2	128	4	<0.010	0.011	0.8	0.1	0.4	6.6	386	670

LSRA #2 — **WM No. 196**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB71546	9/5/14	11	91	6.4	1.8	133	13	0.21	86	<1	5.3	0.061	1.1	< 0.1	0.22	6.5	315	482

Luzern #2 — **WM No. 159**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
CA2710004	7/29/14	83	119.3	22	6	230	91.8	0.25	155.8	9.33	<0.1	0.023	<0.25	0.169	0.54		648	1069

Mission Memorial — **WM No. 156**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB17764	7/10/14	34	59	10	2.9	132	36	0.1	84	9	0.102	<0.010	<0.1	<0.05	0.2	7.2	360	601

<0.1 = Not detected above detection limit of 0.1 mg/L all values in mg/L unless otherwise noted

MSC-Deep — **WM No. 102**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB20601	9/11/14	80	114	17	4.8	325	40	0.2	172	<1	0.082	0.125	<0.1	0.11	0.1	7.2	580	1013
AB17174	6/26/14	77	104	16	4.6	331	34	0.2	140	<1	0.135	0.125	<0.1	0.1	0.3	7.2	580	1032
AB13394	3/25/14	79	110	16	4.6	345	20	0.2	136	<1	0.160	0.154	<0.1	0.1	0.3	7.2	608	1020
AB05838	9/19/13	84	105	15	4.6	331	37	0.2	145	<1	0.245	0.195	<0.1	0.1	0.4	7.1	609	1035

MSC-Shallow — **WM No. 101**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB20600	9/11/14	19	34	5	2.8	83	14	<0.1	48	<1	<0.010	<0.010	<0.1	<0.05	<0.1	6.8	206	308
AB17173	6/26/14	19	34	5	2.8	82	13	<0.1	42	<1	0.010	<0.010	<0.1	<0.05	<0.1	6.9	180	314
AB13393	3/25/14	18	32	5	2.7	79	12	0.1	40	<1	<0.01	<0.01	<0.1	<0.05	<0.1	6.9	217	311
AB05839	9/19/13	19	33	5	2.8	79	13	0.1	43	<1	<0.01	<0.01	<0.01	<0.05	0.1	6.4	211	309

Ord Grove #2 — **WM No. 153**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
CA2710004	7/31/14	60	92.6	18	<5	210	63.4	0.17	127.9	8.43	<0.1	<0.02	<0.25	0.128	0.43		536	910

Ord Terrace-Shallow — **WM No. 109**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB18746	7/31/14	62	79	15	4.1	243	35	<0.1	103	6	0.087	0.114	<0.1	0.07	0.3	7.4	440	778

<0.1 = Not detected above detection limit of 0.1 mg/L all values in mg/L unless otherwise noted

Paralta — **WM No. 169**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
CA2710004	7/28/14	27	55.9	9	<5	92	31.4	<0.1	75.8	3.44	<0.1	<0.02	<0.25	<0.1	0.24		318	483

Pasadera Golf - Paddock — **WM No. 204**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB17788	7/11/14	136	132	33	5.2	289	175	0.5	186	3	<0.010	0.026	<0.1	0.11	0.4	7	848	1386

PCA-E Deep — **WM No. 106**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB18448	7/23/14	35	65	7	3.2	196	24	0.3	80	<1	<0.001	0.011	<0.1	0.07	0.2	7.6	372	622

PCA-E Shallow — **WM No. 105**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB18743	7/31/14	16	39	4	2.1	77	7	<0.1	47	2	<0.010	<0.010	<0.1	<0.05	0.1	7.8	186	298

PCA-W Deep — **WM No. 104**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB20596	9/11/14	90	118	21	5.3	326	45	0.2	215	<1	0.057	0.180	<0.1	0.13	<0.1	6.2	694	1145
AB17172	6/26/14	90	118	21	5.4	317	40	0.3	176	<1	0.033	0.189	<0.1	0.13	0.4	6.4	654	1150
AB13396	3/25/14	86	113	20	5.1	309	37	0.3	172	<1	<0.01	0.093	<0.1	0.12	0.4	7.2	668	1140
AB05840	9/19/13	84	113	19	5.2	305	42	0.2	175	<1	<0.01	0.071	<0.1	0.13	0.5	7.4	649	1092

<0.1 = Not detected above detection limit of 0.1 mg/L all values in mg/L unless otherwise noted

PCA-W Shallow — **WM No. 103**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB20597	9/11/14	20	34	5	2.2	93	10	<0.1	49	1	0.184	0.130	<0.1	<0.05	<0.1	6.7	214	319
AB17171	6/26/14	19	34	5	2.3	93	9	0.1	42	<1	0.161	0.011	<0.1	<0.05	<0.1	6.7	183	328
AB13395	3/25/14	19	33	5	2.2	93	9	0.1	41	1	0.164	0.012	<0.1	<0.05	<0.1	6.8	211	329
AB05841	9/19/13	20	33	5	2.2	94	10	0.1	44	1	0.474	<0.01	<0.1	<0.05	0.1	6.8	211	324

Playa #3 — **WM No. 162**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
CA2710004	7/15/14	52	95.7	18	<5	140	93.1	0.12	123.3	27.81	<0.1	<0.02	<0.25	0.128	0.47		516	861

Plumas #4 — **WM No. 177**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
CA2710004	7/15/14	47	135.3	25	<5	150	83.3	0.17	201.6	11.58	<0.1	<0.02	<0.25	0.11	0.70		598	1075

Ryan Ranch #7 — **WM No. 213**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
CA2701466	7/9/14	103	154.5	31	6	250	162.1	0.65	198.3	<0.2	0.34	0.165	0.70	0.147	0.74		810	1336

Ryan Ranch #8 — **WM No. 216**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)

<0.1 = Not detected above detection limit of 0.1 mg/L all values in mg/L unless otherwise noted

CA2701466	7/9/14	61	169.3	33	<5	160	107.3	0.59	291.2	2.44	0.46	0.035	0.60	0.11	1.02		780	1383

Sand City Corp Yard — **WM No. 165**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB17763	7/10/14	34	230	7	5	160	142	3.4	262	27	<0.010	0.028	<0.1	0.99	0.6	7.4	857	1519
AB11890	2/19/14	34	267	7	5.3	156	138	3.4	268	30	<0.01	0.019	<0.1	1.07	0.4	7.5	868	1515

Seaside Golf - Reservoir — **WM No. 187**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
2710018	6/23/14	23	52	7.5	1.9	82	16	<0.1	78	6		<0.001	<0.03	<0.1	0.17	7	264	432

Seaside Muni #4 — **WM No. 173**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
2710018-004	6/23/14	13	52	4.6	1.8	60	7	<0.1	66	3	0.190	<0.001	<0.03	<0.1	0.14	7.4	200	330

Sentinel MW#1 (1,140 feet) — **WM No. 245.1**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB19235	8/8/14	24	105	2	4.8	95	26	0.2	115	<1	3.249	0.044	<0.1	0.11	0.3	8.7	332	597

Sentinel MW#1 (1,390 feet) — **WM No. 245.2**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB19236	8/8/14	24	87	3	4.2	102	25	0.2	97	<1	8.149	0.088	<0.1	0.1	0.3	8.6	310	513

<0.1 = Not detected above detection limit of 0.1 mg/L all values in mg/L unless otherwise noted

Sentinel MW#2 (1,000 feet) — **WM No. 246.1**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB19237	8/8/14	16	75	1	4.1	100	18	0.1	78	<1	0.661	<0.010	<0.1	0.08	0.2	8.4	258	464

Sentinel MW#2 (1,470 feet) — **WM No. 246.2**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB19238	8/8/14	16	66	8	5.1	127	18	0.1	66	<1	34.169	0.303	<0.1	0.09	0.2	8.5	268	434

Sentinel MW#3 (1,275 feet) — **WM No. 247.2**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB19240	8/8/14	18	63	2	4	101	16	<0.1	64	<1	2.055	0.028	<0.1	0.08	0.2	8	252	410

Sentinel MW#3 (870 feet) — **WM No. 247.1**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB19239	8/8/14	18	62	3	4.2	100	16	<0.1	64	<1	3.967	0.04	<0.1	0.11	0.2	8	252	415

Sentinel MW#4 (715 feet) — **WM No. 248.1**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB19241	8/8/14	60	97	10	6.1	235	37	0.2	126	<1	1.653	0.039	<0.1	0.12	0.3	7.5	495	844
AB11145	1/29/14	49	88	9	7.5	212	35	0.3	128	<1	2.421	0.03	<0.1	0.1	0.2	7.5	494	843

<0.1 = Not detected above detection limit of 0.1 mg/L all values in mg/L unless otherwise noted

Sentinel MW#4 (900 feet) **WM No. 248.2**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB19242	8/8/14	86	197	21	9.4	354	40	0.2	262	<1	7.439	0.185	<0.1	0.35	0.9	7.4	800	1439
AB11146	1/29/14	71	162	18	7.3	338	39	0.3	254	<1	3.662	0.111	<0.1	0.28	0.7	7.4	806	1449

York School 2001 **WM No. 212**

		Major Cations				Major Anions					Minor Ions					Physical		
SPL Id.	Date	Ca^{+}	Na^{+}	Mg^{+}	K^{+}	HCO_3^{-}	SO_4^{-}	F^{-}	Cl^{-}	NO_3^{-}	Fe^{2+}	Mn^{2+}	HPO_4^{-}	B	Br^{-}	pH	TDS	EC (us/cm)
AB17800	7/14/14	36	166	29	4.4	74	32	0.2	318	5	0.410	<0.010	0.2	0.09	0.9	6.4	726	1244

Appendix 2

Seaside Basin Groundwater Level Monitoring Results

for Water Year 2014

Seaside Basin Monitoring and Management Plan
Water Level Data for WY 2014

Bay Ridge (Watermaster No. 226) — **Southern Inland**

Owner: California American Water
Well Type: Producer
Responsible Party: CAW (Monthly)

Aquifer Unit: QTc/Tsm
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2013	381	545.92	164.92	
10/31/2013	377	545.92	168.92	
11/27/2013	440	545.92	105.92	Well Running
12/26/2013	443	545.92	102.92	Well Running
01/30/2014	377	545.92	168.92	
02/27/2014	385	545.92	160.92	
03/27/2014	439	545.92	106.92	Well Running
04/24/2014	372	545.92	173.92	
05/29/2014	442	545.92	103.92	Well Running
06/26/2014	378	545.92	167.92	
07/31/2014	381	545.92	164.92	
08/28/2014	444	545.92	101.92	Well Running
09/26/2014	443	545.92	102.92	

Bishop #1 (west) (Watermaster No. 209) — **Southern Inland**

Owner: California American Water
Well Type: Producer
Responsible Party: CAW (Monthly)

Aquifer Unit: QTc/Tsm
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2013	264.7	398.81	134.11	
10/31/2013	269	398.81	129.81	
11/27/2013	260	398.81	138.81	
12/26/2013	258	398.81	140.81	

01/30/2014	258	398.81	140.81	
02/27/2014	253	398.81	145.81	
03/27/2014	258	398.81	140.81	
04/24/2014	257	398.81	141.81	
05/29/2014	258	398.81	140.81	
06/26/2014	314	398.81	84.81	Well Running
07/31/2014	341	398.81	57.81	Well Running
08/28/2014	266	398.81	132.81	
09/25/2014	342	398.81	56.81	Well Running

Bishop #3 (Watermaster No. 262) — **Southern Inland**

Owner: CAW

Aquifer Unit:

Well Type: Producer

Responsible Party: (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2013	384	420.58	36.58	Well Running
10/31/2013	375	420.58	45.58	Well Running
11/27/2013	279	420.58	141.58	
12/26/2013	283	420.58	137.58	
01/30/2014	283	420.58	137.58	
02/27/2014	266	420.58	154.58	
03/27/2014	269	420.58	151.58	
04/24/2014	265	420.58	155.58	
05/29/2014	285	420.58	135.58	
06/26/2014	273.2	420.58	147.38	
07/31/2014	273	420.58	147.58	
08/28/2014	363	420.58	57.58	Well Running
09/25/2014	272	420.58	148.58	

Blue Larkspur-East End (Watermaster No. 143)

Southern Inland

Owner: Laguna Seca Resorts

Aquifer Unit:

Well Type: Monitor

Responsible Party: MPWMD (Quarterly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
12/20/2013	110.35	253.29	142.94	
03/19/2014	110.70	253.29	142.59	
08/06/2014	111.83	253.29	141.46	

CalAm Granite Construction (Watermaster No. 242)

Southern Inland

Owner: California American Water

Aquifer Unit: Tsm

Well Type: Monitor

Responsible Party: MPWMD (Quarterly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/20/2013	134.69	223.43	88.74	
12/20/2013	134.62	223.43	88.81	
03/19/2014	134.80	223.43	88.63	
08/06/2014	134.98	223.43	88.45	

CDM MW-1 (Watermaster No. 251)

Northern Coastal

Owner: MPWMD

Aquifer Unit: Qod/Qar

Well Type: Monitor

Responsible Party: MPWMD (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
12/06/2013	90.04	93.35	3.31	
01/07/2014	89.83	93.35	3.52	
01/29/2014	90.1	93.35	3.25	
03/06/2014	89.49	93.35	3.86	
04/02/2014	89.38	93.35	3.97	
04/29/2014	89.52	93.35	3.83	
05/28/2014	90.24	93.35	3.11	

07/01/2014	90.31	93.35	3.04
07/29/2014	90.60	93.35	2.75
09/02/2014	90.53	93.35	2.82
09/29/2014	90.03	93.35	3.32

CDM MW-2 (Watermaster No. 252) — **Northern Coastal**

Owner: MPWMD
Well Type: Monitor
Responsible Party: MPWMD (Monthly)

Aquifer Unit: Qod/Qar
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
12/05/2013	60.35	68.83	8.48	
01/07/2014	60.46	68.83	8.37	
03/06/2014	59.98	68.83	8.85	
03/29/2014	61.80	68.83	7.03	
04/02/2014	59.72	68.83	9.11	
04/29/2014	59.05	68.83	9.78	
05/28/2014	60.62	68.83	8.21	
07/01/2014	60.82	68.83	8.01	
07/29/2014	61.18	68.83	7.65	
09/02/2014	60.82	68.83	8.01	
09/29/2014	61.80	68.83	7.03	

CDM MW-3 (Watermaster No. 239) — **Southern Coastal**

Owner: MPWMD
Well Type: Monitor
Responsible Party: MPWMD (Monthly)

Aquifer Unit: Qod
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
11/07/2013	30.99	33.81	2.82	
12/04/2013	31.18	33.81	2.63	
01/06/2014	31.61	33.81	2.20	
01/30/2014	30.80	33.81	3.01	

03/05/2014	32.19	33.81	1.62
04/08/2014	32.62	33.81	1.19
04/28/2014	32.58	33.81	1.23
05/28/2014	32.88	33.81	0.93
06/26/2014	32.86	33.81	0.95
07/28/2014	33.18	33.81	0.63
08/28/2014	32.42	33.81	1.39
10/01/2014	31.90	33.81	1.91

CDM MW-4 (Watermaster No. 238) — **Southern Coastal**

Owner: MPWMD

Aquifer Unit: Qod

Well Type: Monitor

Responsible Party: MPWMD (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
11/07/2013	14.87	18.69	3.82	
12/04/2013	15.05	18.69	3.64	
01/06/2014	15.46	18.69	3.23	
01/30/2014	14.52	18.69	4.17	
03/05/2014	14.55	18.69	4.14	
04/08/2014	14.50	18.69	4.19	
04/28/2014	14.74	18.69	3.95	
05/28/2014	15.19	18.69	3.50	
06/26/2014	15.42	18.69	3.27	
07/28/2014	15.38	18.69	3.31	
08/28/2014	15.32	18.69	3.37	
10/01/2014	14.96	18.69	3.73	

Cypress Pacific Prod (Watermaster No. 150)

Southern Coastal

Owner: King Venture

Aquifer Unit: QTc

Well Type: Producer

Responsible Party: MPWMD (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2013	47.50	50.23	2.73	
11/07/2013	46.90	50.23	3.33	
12/04/2013	46.89	50.23	3.34	
01/06/2014	46.96	50.23	3.27	
01/31/2014	46.78	50.23	3.45	
03/05/2014	46.82	50.23	3.41	
04/08/2014	47	50.23	3.23	
04/28/2014	49.23	50.23	1.00	
05/28/2014	47.18	50.23	3.05	
06/25/2014	47.19	50.23	3.04	
07/28/2014	47.37	50.23	2.86	
08/28/2014	47.29	50.23	2.94	
10/01/2014	47.28	50.23	2.95	

Darwin (Watermaster No. 186)

Northern Coastal

Owner: California American Water

Aquifer Unit: QTc

Well Type: Producer

Responsible Party: CAW (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2013	114.3	134.05	19.75	
10/31/2013	114.2	134.05	19.85	
11/27/2013	114.3	134.05	19.75	
12/26/2013	114.0	134.05	20.05	
01/30/2014	114.0	134.05	20.05	
02/27/2014	113.5	134.05	20.55	

03/27/2014	114.0	134.05	20.05	
04/24/2014	114.1	134.05	19.95	
05/29/2014	114.3	134.05	19.75	
06/16/2014	114.0	134.05	20.05	Darwin Was Destroyed 7/14

Del Monte Test (Watermaster No. 231) — **Northern Coastal**

Owner: California American Water
Well Type: Monitor
Responsible Party: CAW (Monthly)

Aquifer Unit: QTc
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2013	30	32.62	2.62	
10/31/2013	30	32.62	2.62	
11/27/2013	30.1	32.62	2.52	
12/26/2013	30.5	32.62	2.12	
01/30/2014	30.3	32.62	2.32	
02/27/2014	29.8	32.62	2.82	
03/27/2014	30.0	32.62	2.62	
04/24/2014	29.9	32.62	2.72	
05/29/2014	29.9	32.62	2.72	
06/26/2014	30.0	32.62	2.62	
07/31/2014	30.0	32.62	2.62	
08/28/2014	30.0	32.62	2.62	
09/25/2014	30.1	32.62	2.52	

Design Ctr. (Watermaster No. 167) — **Southern Coastal**

Owner: City of Sand City
Well Type: Producer
Responsible Party: MPWMD (Monthly)

.quifer Unit: Qod/Qar/QTc
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2013	13.85	21.31	7.46	
11/07/2013	14.10	21.31	7.21	

12/04/2013	13.99	21.31	7.32
01/06/2014	14.04	21.31	7.27
01/30/2014	13.75	21.31	7.56
03/05/2014	13.88	21.31	7.43
04/08/2014	13.81	21.31	7.50
04/28/2014	14.20	21.31	7.11
05/28/2014	14.35	21.31	6.96
07/01/2014	14.30	21.31	7.01
07/28/2014	14.04	21.31	7.27
08/28/2014	14.08	21.31	7.23
10/01/2014	14.04	21.31	7.27

FO-01-Deep (Watermaster No. 116) — **Northern Inland**

Owner: MPWMD
Well Type: Monitor
Responsible Party: MPWMD (Quarterly)

Aquifer Unit: Tm
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/18/2013	340.51	362.57	22.06	
12/23/2013	341.01	362.57	21.56	
03/21/2014	340.75	362.57	21.82	
08/06/2014	341.00	362.57	21.57	

FO-01-Shallow (Watermaster No. 115) — **Northern Inland**

Owner: MPWMD
Well Type: Monitor
Responsible Party: MPWMD (Quarterly)

Aquifer Unit: QTc
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/18/2013	202.56	362.61	160.05	
12/23/2013	202.74	362.61	159.87	
03/21/2014	202.72	362.61	159.89	
08/06/2014	202.73	362.61	159.88	

FO-03-Deep (Watermaster No. 127)

Southern Inland

Owner: MPWMD

Aquifer Unit: Tsm

Well Type: Monitor

All Values in Feet

Responsible Party: MPWMD (Quarterly)

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/18/2013	637.34	774.74	137.40	
12/23/2013	637.99	774.74	136.75	
03/20/2014	637.41	774.74	137.33	
08/13/2014	637.42	774.74	137.32	

FO-04-Deep (W) (Watermaster No. 130)

Southern Inland

Owner: MPWMD

Aquifer Unit: Tsm

Well Type: Monitor

All Values in Feet

Responsible Party: MPWMD (Quarterly)

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
11/07/2013	113.42	167.44	54.02	
12/04/2013	113.56	167.44	53.88	
01/07/2014	113.90	167.44	53.54	
01/30/2014	113.92	167.44	53.52	
03/06/2014	113.26	167.44	54.18	
04/08/2014	112.67	167.44	54.77	
04/28/2014	112.40	167.44	55.04	
05/27/2014	113.87	167.44	53.57	
07/29/2014	113.89	167.44	53.55	
09/02/2014	113.66	167.44	53.78	
10/01/2014	113.89	167.44	53.55	

FO-04-Shallow (E) (Watermaster No. 129)

Southern Inland

Owner: MPWMD

Aquifer Unit: QTc

Well Type: Monitor

Responsible Party: MPWMD (Quarterly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
11/07/2013	113.95	168.23	54.28	
12/04/2013	113.96	168.23	54.27	
01/07/2014	114.18	168.23	54.05	
01/30/2014	114.33	168.23	53.90	
03/06/2014	114.13	168.23	54.10	
04/08/2014	113.7	168.23	54.53	
04/28/2014	113.59	168.23	54.64	
05/27/2014	113.23	168.23	55.00	
07/29/2014	113.42	168.23	54.81	
09/02/2014	112.57	168.23	55.66	
10/01/2014	113.38	168.23	54.85	

FO-05-Deep (Watermaster No. 132)

Southern Inland

Owner: MPWMD

Aquifer Unit: Tsm

Well Type: Monitor

Responsible Party: MPWMD (Quarterly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/18/2013	319.99	479.29	159.30	
12/23/2013	317.95	479.29	161.34	
03/19/2014	314.50	479.29	164.79	
08/06/2014	319.05	479.29	160.24	

FO-05-Shallow (Watermaster No. 131)

Southern Inland

Owner: MPWMD
Well Type: Monitor
Responsible Party: MPWMD (Quarterly)

Aquifer Unit: QTc
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/18/2013	248.99	478.97	229.98	
12/23/2013	250.40	478.97	228.57	
03/19/2014	246.01	478.97	232.96	
08/06/2014	249.82	478.97	229.15	

FO-06-Deep (Watermaster No. 134)

Southern Inland

Owner: MPWMD
Well Type: Monitor
Responsible Party: MPWMD (Quarterly)

Aquifer Unit: Tsm
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/18/2013	235.73	470.63	234.90	
12/23/2013	236.85	470.63	233.78	
03/18/2014	232.25	470.63	238.38	
08/13/2014	237.13	470.63	233.50	

FO-06-Shallow (Watermaster No. 133)

Southern Inland

Owner: MPWMD
Well Type: Monitor
Responsible Party: MPWMD (Quarterly)

Aquifer Unit: QTc
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/18/2013	235.98	470.13	234.15	
12/23/2013	237.41	470.13	232.72	
03/18/2014	234.46	470.13	235.67	
08/13/2014	236.13	470.13	234.00	

FO-07-Deep (Watermaster No. 119)

Northern Inland

Owner: MPWMD

Aquifer Unit: Tsm

Well Type: Monitor

Responsible Party: MPWMD (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/17/2013	494.31	470.15	-24.16	
11/05/2013	494.38	470.15	-24.23	
12/03/2013	494.5	470.15	-24.35	
01/03/2014	491.97	470.15	-21.82	
01/29/2014	491.69	470.15	-21.54	
03/05/2014	491.30	470.15	-21.15	
04/02/2014	490.97	470.15	-20.82	
04/28/2014	490.88	470.15	-20.73	
05/27/2014	490.97	470.15	-20.82	
07/01/2014	490.82	470.15	-20.67	
07/28/2014	491.38	470.15	-21.23	
08/25/2014	492.40	470.15	-22.25	
09/26/2014	492.98	470.15	-22.83	

FO-07-Shallow (Watermaster No. 118)

Northern Inland

Owner: MPWMD

Aquifer Unit: QTc

Well Type: Monitor

Responsible Party: MPWMD (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/17/2013	453.5	470.19	16.69	
11/05/2013	450.59	470.19	19.60	
12/03/2013	453.51	470.19	16.68	
01/03/2014	453.5	470.19	16.69	
01/29/2014	453.68	470.19	16.51	
03/05/2014	453.12	470.19	17.07	

04/02/2014	453.11	470.19	17.08
04/28/2014	453.20	470.19	16.99
05/17/2014	453.17	470.19	17.02
07/01/2014	453.13	470.19	17.06
07/28/2014	453.22	470.19	16.97
08/25/2014	454.07	470.19	16.12
09/26/2014	453.31	470.19	16.88

FO-08-Deep (Watermaster No. 121)

Northern Inland

Owner: MPWMD

Aquifer Unit: Tsm

Well Type: Monitor

All Values in Feet

Responsible Party: MPWMD (Monthly)

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
11/08/2013	401.16	378.1	-23.06	
12/04/2013	401.32	378.1	-23.22	
01/06/2014	399.1	378.1	-21.00	
01/30/2014	398.72	378.1	-20.62	
03/05/2014	398.38	378.1	-20.28	
03/25/2014	398.11	378.1	-20.01	
04/29/2014	397.97	378.1	-19.87	
05/27/2014	398.20	378.1	-20.10	
07/01/2014	397.98	378.1	-19.88	
07/29/2014	398.32	378.1	-20.22	
08/25/2014	399.52	378.1	-21.42	
09/26/2014	399.37	378.1	-21.27	

FO-08-Shallow (Watermaster No. 120)

Northern Inland

Owner: MPWMD

Aquifer Unit: QTc

Well Type: Monitor

All Values in Feet

Responsible Party: MPWMD (Monthly)

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments

11/08/2013	373.37	378.04	4.67
12/04/2013	373.33	378.04	4.71
01/06/2014	373.33	378.04	4.71
01/30/2014	373.49	378.04	4.55
03/05/2014	372.91	378.04	5.13
03/25/2014	373.17	378.04	4.87
04/29/2014	373.38	378.04	4.66
05/27/2014	373.62	378.04	4.42
07/01/2014	373.73	378.04	4.31
07/29/2014	373.90	378.04	4.14
08/25/2014	374.10	378.04	3.94
09/26/2014	374.2	378.04	3.84

FO-09-Deep (Watermaster No. 112) — **Northern Coastal**

Owner: MPWMD

Well Type: Monitor

Responsible Party: MPWMD (Monthly)

Aquifer Unit: Tsm

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/19/2013	143.42	118.85	-24.57	
11/05/2013	141.52	118.85	-22.67	
12/03/2013	141.93	118.85	-23.08	
01/06/2014	139.8	118.85	-20.95	
01/30/2014	139.80	118.85	-20.95	
03/05/2014	139.02	118.85	-20.17	
03/25/2014	138.59	118.85	-19.74	
04/28/2014	138.5	118.85	-19.65	
05/27/2014	138.92	118.85	-20.07	
06/25/2014	138.5	118.85	-19.65	
07/28/2014	139.1	118.85	-20.25	
09/02/2014		118.85		No Access

09/29/2014	118.85	No Access

FO-09-Shallow (Watermaster No. 111)

Northern Coastal

Owner: MPWMD

Aquifer Unit: QTc/Tp

Well Type: Monitor

Responsible Party: MPWMD (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/19/2013	111.06	118.89	7.83	
11/05/2013	111.09	118.89	7.80	
12/03/2013	111.04	118.89	7.85	
01/06/2014	111.29	118.89	7.60	
01/30/2014	111	118.89	7.89	
03/05/2014	111.27	118.89	7.62	
03/25/2014	111.02	118.89	7.87	
04/28/2014	111.13	118.89	7.76	
05/27/2014	111.28	118.89	7.61	
06/25/2014	111.40	118.89	7.49	
07/28/2014	111.60	118.89	7.29	
09/02/2014	111.58	118.89	7.31	
09/29/2014	111.87	118.89	7.02	

FO-10-Deep (Watermaster No. 114)

Northern Coastal

Owner: MPWMD

Aquifer Unit: Tp

Well Type: Monitor

Responsible Party: MPWMD (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
11/08/2013	206.1	201.03	-5.07	
12/03/2013	206.28	201.03	-5.25	
01/07/2014	206.50	201.03	-5.47	
01/31/2014	206.80	201.03	-5.77	
03/06/2014	206.15	201.03	-5.12	

04/08/2014	206.32	201.03	-5.29
04/29/2014	206.25	201.03	-5.22
05/28/2014	206.5	201.03	-5.47
07/02/2014	206.42	201.03	-5.39
07/29/2014	208.66	201.03	-7.63
09/02/2014	208.68	201.03	-7.65
10/01/2014	208.59	201.03	-7.56

FO-10-Shallow (Watermaster No. 113) — **Northern Coastal**

Owner: MPWMD
Well Type: Monitor
Responsible Party: MPWMD (Monthly)
Aquifer Unit: QTc
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
11/08/2013	206.32	200.85	-5.47	
12/03/2013	206.53	200.85	-5.68	
01/07/2014	206.92	200.85	-6.07	
01/31/2014	207.40	200.85	-6.55	
03/06/2014	206.68	200.85	-5.83	
04/08/2014	207.02	200.85	-6.17	
04/29/2014	207.13	200.85	-6.28	
05/28/2014	207.25	200.85	-6.40	
07/01/2014	207.17	200.85	-6.32	
07/29/2014	209.42	200.85	-8.57	
09/02/2014	209.60	200.85	-8.75	
10/01/2014	209.61	200.85	-8.76	

FO-11-Deep (Watermaster No. 123) — **Northern Inland**

Owner: MPWMD
Well Type: Monitor
Responsible Party: MPWMD (Monthly)
Aquifer Unit: Tp
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments

11/08/2013	330.30	332.96	2.66
12/04/2013	330.41	332.96	2.55
01/07/2014	330.65	332.96	2.31
01/31/2014	330.82	332.96	2.14
03/06/2014	330.44	332.96	2.52
04/08/2014	330.65	332.96	2.31
04/29/2014	330.03	332.96	2.93
05/28/2014	330.29	332.96	2.67
07/01/2014	330.19	332.96	2.77
07/29/2014	332.04	332.96	0.92
09/02/2014	332.06	332.96	0.90
10/01/2014	331.96	332.96	1.00

FO-11-Shallow (Watermaster No. 122)

Northern Inland

Owner: MPWMD

Aquifer Unit: QTc

Well Type: Monitor

All Values in Feet

Responsible Party: MPWMD (Monthly)

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
11/08/2013	349.22	332.93	-16.29	
12/04/2013	349.17	332.93	-16.24	
01/07/2014	349.55	332.93	-16.62	
01/31/2014	349.94	332.93	-17.01	
03/06/2014	350.07	332.93	-17.14	
04/08/2014	351.33	332.93	-18.40	
04/29/2014	351.48	332.93	-18.55	
05/28/2014	351.6	332.93	-18.67	
07/01/2014	351.55	332.93	-18.62	
07/29/2014	355.98	332.93	-23.05	
09/02/2014	356.33	332.93	-23.40	
10/01/2014	356.28	332.93	-23.35	

Hilby MGT (Watermaster No. 244)

Southern Coastal

Owner: California American Water

Aquifer Unit: QTc

Well Type: Monitor

All Values in Feet

Responsible Party: CAW (Monthly)

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2013	247.4	248.04	0.64	
10/31/2013	247.5	248.04	0.54	
11/27/2013	247.4	248.04	0.64	
12/26/2013	242.7	248.04	5.34	
01/31/2014	246.8	248.04	1.24	
02/27/2014	246.9	248.04	1.14	
03/27/2014	246.0	248.04	2.04	
04/24/2014		248.04		No Access
05/29/2014		248.04		No Access
06/26/2014		248.04		No Access
07/31/2014	241.4	248.04	6.64	Converted to Monitor Well
08/28/2014	241.3	248.04	6.74	
09/25/2014	241.5	248.04	6.54	

Justin Court (Watermaster No. 135)

Southern Inland

Owner: California American Water

Aquifer Unit: QTc

Well Type: Monitor

All Values in Feet

Responsible Party: MPWMD (Quarterly)

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/20/2013	142.84	240.28	97.44	
12/20/2013	142.80	240.28	97.48	
03/19/2014	142.89	240.28	97.39	
08/06/2014	143.08	240.28	97.20	

K-Mart (Watermaster No. 125)

Southern Coastal

Owner: MPWMD

Aquifer Unit: Qod/Qar

Well Type: Monitor

All Values in Feet

Responsible Party: MPWMD (Monthly)

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2013	23.92	30.65	6.73	
11/07/2013	23.88	30.65	6.77	
12/04/2013	23.95	30.65	6.70	
01/06/2014	23.83	30.65	6.82	
03/05/2014	23.52	30.65	7.13	
04/08/2014	23.46	30.65	7.19	
04/28/2014		30.65		trailer parked on well
06/25/2014	23.90	30.65	6.75	
07/28/2014	23.98	30.65	6.67	
08/28/2014	23.99	30.65	6.66	
10/01/2014	23.99	30.65	6.66	

LS Driving Range (Watermaster No. 141)

Southern Inland

Owner: County of Monterey

Aquifer Unit: QTc

Well Type: Monitor

All Values in Feet

Responsible Party: MPWMD (Quarterly)

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/18/2013	340.69	488.34	147.65	
12/20/2013	342.63	488.34	145.71	
03/18/2014	342.04	488.34	146.30	
07/23/2014	344.02	488.31	144.29	

LS Golf Old #12 (Watermaster No. 144)

Southern Inland

Owner: Laguna Seca Resorts

Aquifer Unit: QTc/Tsm

Well Type: Producer

Responsible Party: LSGR (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2013	233.9	368.02	134.12	
11/01/2013	228.6	368.02	139.42	
12/01/2013	226.5	368.02	141.52	
01/01/2014	226.6	368.02	141.42	
02/01/2014	223	368.02	145.02	
03/01/2014	222.7	368.02	145.32	
04/01/2014		368.02		not reported
05/01/2014		368.02		not reported
06/01/2014		368.02		not reported
07/01/2014	236	368.02	132.02	
08/01/2014	236	368.02	132.02	
09/01/2014	236	368.02	132.02	

LS No. 1 Subdivision (Watermaster No. 142)

Southern Inland

Owner: Laguna Seca Resorts

Aquifer Unit: Tsm

Well Type: Monitor

Responsible Party: MPWMD (Quarterly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/20/2013	132.68	277.13	144.45	
12/20/2013	133.66	277.13	143.47	
03/19/2014	133.93	277.13	143.20	
08/06/2014	134.98	277.13	142.15	

LS Pistol Range (Watermaster No. 136)

Southern Inland

Owner: County of Monterey

Aquifer Unit: Tsm

Well Type: Monitor

Responsible Party: MPWMD (Quarterly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/18/2013	285.63	514.39	228.76	
03/18/2014	286.03	514.39	228.36	
08/05/2014	286.90	514.39	227.49	

LSRA #2 (Watermaster No. 196)

Southern Inland

Owner: Monterey County Parks Department

Aquifer Unit: QTc

Well Type: Producer

Responsible Party: MCPD (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2013		390.9		Not Visited
11/01/2013		390.9		Not Visited
12/01/2013		390.9		Not Visited
01/01/2014	178	390.9	212.90	
02/01/2014		390.9		Not Visited
03/01/2014		390.9		Not Visited
04/01/2014	178	390.9	212.90	
05/01/2014		390.9		Not Visited
06/01/2014		390.9		Not Visited
07/01/2014	203	390.9	187.90	
08/01/2014		390.9		Not Visited
09/01/2014	213	390.9	177.90	

Luxton (Watermaster No. 243)

Northern Coastal

Owner: California American Water

Aquifer Unit: QTc

Well Type: Monitor

All Values in Feet

Responsible Party: CAW (Monthly)

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2013	99.5	89.12	-10.38	
10/31/2013	99.5	89.12	-10.38	
11/27/2013	99.6	89.12	-10.48	
12/26/2013	99.8	89.12	-10.68	
01/30/2014	99.7	89.12	-10.58	
02/27/2014	99.0	89.12	-9.88	
03/27/2014	99.0	89.12	-9.88	
04/24/2014		89.12		No Access
05/29/2014		89.12		No Access
06/26/2014		89.12		No Access
07/31/2014	103.0	89.12	-13.88	Converted to Monitor Well
08/28/2014	103.3	89.12	-14.18	
09/25/2014	103.2	89.12	-14.08	

Luzern #2 (Watermaster No. 159)

Northern Coastal

Owner: California American Water

Aquifer Unit: QTc/Tsm

Well Type: Producer

All Values in Feet

Responsible Party: CAW (Monthly)

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2013	188	159.99	-28.01	
10/31/2013	187.1	159.99	-27.11	
11/27/2013	187.0	159.99	-27.01	
12/26/2013	182.0	159.99	-22.01	
01/30/2014	187.0	159.99	-27.01	
02/27/2014	185.7	159.99	-25.71	

03/27/2014	186.0	159.99	-26.01	
04/24/2014	185.2	159.99	-25.21	
05/29/2014	218.0	159.99	-58.01	Well Running
06/26/2014	187	159.99	-27.01	
07/31/2014	187.6	159.99	-27.61	
08/28/2014	186.5	159.99	-26.51	
09/25/2014	208.6	159.99	-48.61	Well Running

Military (Watermaster No. 151) — **Northern Coastal**

Owner: California American Water

Well Type: Producer

Responsible Party: CAW (Monthly)

Aquifer Unit: QTc

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2013	165.3	135.8	-29.50	
10/31/2013	163.6	135.8	-27.80	
11/27/2013	163.0	135.8	-27.20	
12/16/2013	162.1	135.8	-26.30	
01/31/2014	162.9	135.8	-27.10	
02/27/2014	161.2	135.8	-25.40	
03/27/2014	161.0	135.8	-25.20	
04/24/2014		135.8		No Access
05/29/2014		135.8		No Access
06/26/2014		135.8		No Access
07/31/2014	161.5	135.8	-25.70	Converted to Monitor Well
08/28/2014	162.9	135.8	-27.10	
09/25/2014	162.6	135.8	-26.80	

MMP monitor (Watermaster No. 154)

Northern Coastal

Owner: Mission Memorial Park

Aquifer Unit: QTc

Well Type: Monitor

Responsible Party: MPWMD (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2013	360.40	315.42	-44.98	production well on
11/07/2013	360.59	315.42	-45.17	prod on
12/04/2013	360.54	315.42	-45.12	prod on
01/06/2014	359.60	315.42	-44.18	prod on
01/30/2014	359.10	315.42	-43.68	
03/05/2014	359.3	315.42	-43.88	
04/08/2014	359.1	315.42	-43.68	
04/28/2014	347.92	315.42	-32.50	
05/28/2014	351.89	315.42	-36.47	prod on
06/26/2014	351.71	315.42	-36.29	
07/28/2014	352.23	315.42	-36.81	prod on
08/28/2014	353.02	315.42	-37.60	prod on
09/29/2014	343.09	315.42	-27.67	prod on

MSC-Deep (Watermaster No. 102)

Northern Coastal

Owner: MPWMD

Aquifer Unit: Tsm

Well Type: Monitor

Responsible Party: MPWMD (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/19/2013	99.93	80.29	-19.64	
11/07/2013	98.09	80.29	-17.80	
12/04/2013	97.95	80.29	-17.66	
01/06/2014	97.67	80.29	-17.38	
01/31/2014	97.14	80.29	-16.85	
03/05/2014	96.99	80.29	-16.70	

03/25/2014	89.40	80.29	-9.11
04/28/2014	95.45	80.29	-15.16
05/28/2014	96.62	80.29	-16.33
06/25/2014	97.11	80.29	-16.82
07/28/2014	97.64	80.29	-17.35
08/28/2014	98.81	80.29	-18.52
10/01/2014	98.38	80.29	-18.09

MSC-Shallow (Watermaster No. 101)

Northern Coastal

Owner: MPWMD

Aquifer Unit: QTc

Well Type: Monitor

Responsible Party: MPWMD (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/19/2013	75.85	80.1	4.25	
11/07/2013	74.69	80.1	5.41	
12/04/2013	74.45	80.1	5.65	
01/06/2014	75.17	80.1	4.93	
01/31/2014	75.13	80.1	4.97	
03/05/2014	75.12	80.1	4.98	
03/25/2014	76.38	80.1	3.72	
04/28/2014	74.82	80.1	5.28	
05/28/2014	75.09	80.1	5.01	
06/25/2014	75.32	80.1	4.78	
07/28/2014	75.62	80.1	4.48	
08/28/2014	75.39	80.1	4.71	
10/01/2014	75.67	80.1	4.43	

MW-B-22-180 (Watermaster No. 254)

Northern Coastal

Owner: U.S.A. Fort Ord

Aquifer Unit: Qod/Qar

Well Type: Monitor

All Values in Feet

Responsible Party: MPWMD (Monthly)

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
12/06/2013	157.46	168.1	10.64	
01/07/2014	157.66	168.1	10.44	
03/06/2014	158.17	168.1	9.93	
04/08/2014	158.25	168.1	9.85	
04/29/2014	158.21	168.1	9.89	
05/18/2014	158.31	168.1	9.79	Well Destroyed 6/2014

MW-B-23-180 (Watermaster No. 258)

Northern Coastal

Owner: U.S.A. Fort Ord

Aquifer Unit: Qod/Qar

Well Type: Monitor

All Values in Feet

Responsible Party: MPWMD (Monthly)

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
12/06/2013	110.3	113.52	3.22	
01/07/2014	110.16	113.52	3.36	
01/29/2014	109.5	113.52	4.02	
03/06/2014	109.98	113.52	3.54	
04/29/2014	109.59	113.52	3.93	
05/18/2014	109.81	113.52	3.71	Well Destroyed 6/2014

MW-BW-08-A (Watermaster No. 240)

Southern Coastal

Owner: U.S.A. Fort Ord

Aquifer Unit: Qod/Qar

Well Type: Monitor

All Values in Feet

Responsible Party: MPWMD (Monthly)

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
07/08/2014	59.90	205.18	145.28	

MW-BW-09-180 (Watermaster No. 241)

Southern Coastal

Owner: U.S.A. Fort Ord

Aquifer Unit: QTc

Well Type: Monitor

All Values in Feet

Responsible Party: MPWMD (Monthly)

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
07/08/2014	209.18	206.22	-2.96	

Ord Grove #2 (Watermaster No. 153)

Northern Coastal

Owner: California American Water

Aquifer Unit: QTc/Tsm

Well Type: Producer

All Values in Feet

Responsible Party: CAW (Monthly)

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2013	392.6	292.39	-100.21	
10/31/2013	391.8	292.39	-99.41	
11/27/2013	391.8	292.39	-99.41	
12/26/2013	386.7	292.39	-94.31	
01/30/2014	392.3	292.39	-99.91	
02/27/2014	391.3	292.39	-98.91	
03/27/2014	390.0	292.39	-97.61	
04/24/2014	388.5	292.39	-96.11	Production Well On
05/29/2014	390.9	292.39	-98.51	Production Well On
06/26/2014	391.0	292.39	-98.61	Production Well On
07/31/2014	389.3	292.39	-96.91	Production Well On
08/28/2014	393.5	292.39	-101.11	Production Well On
09/25/2014	393.2	292.39	-100.81	Production Well On

Ord Grove Test (Watermaster No. 107)

Northern Coastal

Owner: California American Water

Aquifer Unit: QTc/Tsm

Well Type: Monitor

All Values in Feet

Responsible Party: MPWMD (Monthly)

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments

11/07/2013	350.85	294.00	-56.85	prod on
12/04/2013	350.78	294.00	-56.78	prod on
01/06/2014	350.10	294.00	-56.10	prod on
01/30/2014	349.52	294.00	-55.52	prod on
03/05/2014	349.48	294.00	-55.48	prod on
04/28/2014	348.2	294.00	-54.20	prod on
05/28/2014	349.2	294.00	-55.20	prod on
06/26/2014	349.17	294.00	-55.17	
07/28/2014	349.22	294.00	-55.22	prod on
08/28/2014	350.10	294.00	-56.10	prod on
09/29/2014	349.98	294.00	-55.98	prod on

Ord Terrace-Shallow (Watermaster No. 109) — **Northern Coastal**

Owner: MPWMD

Well Type: Monitor

Responsible Party: MPWMD (Annually)

Aquifer Unit: Tsm (upper)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/17/2013	269.69	228.65	-41.04	
11/07/2013	269.78	228.65	-41.13	
12/04/2013	269.93	228.65	-41.28	
01/06/2014	268.95	228.65	-40.30	
01/30/2014	268.40	228.65	-39.75	
03/05/2014	268.21	228.65	-39.56	
03/28/2014	266.02	228.65	-37.37	
05/28/2014	267.82	228.65	-39.17	
06/26/2014	267.72	228.65	-39.07	
07/28/2014	267.78	228.65	-39.13	
08/28/2014	269.10	228.65	-40.45	
09/29/2014	268.99	228.65	-40.34	

Paralta (Watermaster No. 169)

Northern Coastal

Owner: California American Water

Aquifer Unit: QTc/Tsm

Well Type: Producer

Responsible Party: CAW (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2013	373.7	324.49	-49.21	
10/31/2013	350.5	324.49	-26.01	
11/27/2013	353.0	324.49	-28.51	
12/26/2013	344.6	324.49	-20.11	
01/30/2014	356.0	324.49	-31.51	
02/27/2014	347.8	324.49	-23.31	
03/27/2014	347.0	324.49	-22.51	
04/24/2014	347.0	324.49	-22.51	
05/29/2014	348.7	324.49	-24.21	
06/26/2014		324.49		No Access
07/31/2014		324.49		No Access
08/28/2014	369.5	324.49	-45.01	Well On
09/25/2014	349.5	324.49	-25.01	

Paralta Test (Watermaster No. 108)

Northern Coastal

Owner: MPWMD

Aquifer Unit: QTc/Tsm

Well Type: Monitor

Responsible Party: MPWMD (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
11/08/2013	337.52	330.72	-6.80	
12/03/2013	337.30	330.72	-6.58	
01/06/2014	334.38	330.72	-3.66	
01/07/2014	333.00	330.72	-2.28	
01/30/2014	333.51	330.72	-2.79	
03/05/2014	333.42	330.72	-2.70	

04/02/2014	333.05	330.72	-2.33	
04/28/2014	333.02	330.72	-2.30	
05/27/2014	333.65	330.72	-2.93	
07/28/2014	333.57	330.72	-2.85	
08/28/2014	343.20	330.72	-12.48	prod on
10/01/2014	334.50	330.72	-3.78	

Pasadera Golf - Main Gate (Watermaster No. 208)

Southern Inland

Owner: Pasadera Country Club, LLC

Aquifer Unit: Tsm

Well Type: Producer

Responsible Party: Pasadera (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2013	225.8	345.42	119.62	
11/01/2013	214.33	345.42	131.09	
12/01/2013	210.08	345.42	135.34	
01/01/2014	211.83	345.42	133.59	
02/01/2014	208	345.42	137.42	
03/01/2014	207.08	345.42	138.34	
04/01/2014	208.17	345.42	137.25	
05/01/2014	219.42	345.42	126.00	
06/01/2014	225.5	345.42	119.92	
07/01/2014	227.25	345.42	118.17	
08/01/2014	226.08	345.42	119.34	
09/01/2014	220.17	345.42	125.25	

Pasadera Golf - Paddock (Watermaster No. 204)

Southern Inland

Owner: Pasadera Country Club, LLC

Aquifer Unit: QTc/Tsm

Well Type: Producer

Responsible Party: Pasadera (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2013	216.3	359.69	143.39	

11/01/2013	217.42	359.69	142.27
12/01/2013	215.5	359.69	144.19
01/01/2014	217	359.69	142.69
02/01/2014	213.42	359.69	146.27
03/01/2014	211.58	359.69	148.11
04/01/2014	212.42	359.69	147.27
05/01/2014	216.33	359.69	143.36
06/01/2014	216.33	359.69	143.36
07/01/2014	216.33	359.69	143.36
08/01/2014	216.33	359.69	143.36
09/01/2014	224.92	359.69	134.77

PCA Production (Watermaster No. 171)

Northern Coastal

Owner: Security National Guaranty Inc

Aquifer Unit: QTc

Well Type: Producer

All Values in Feet

Responsible Party: Craig Evans (Monthly)

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/25/2013	67.20	72.63	5.43	
10/25/2013	68.02	72.63	4.61	
11/23/2013	67.8	72.63	4.83	
12/25/2013	67.8	72.63	4.83	
01/26/2014	67.8	72.63	4.83	
02/22/2014	68.3	72.63	4.33	
03/25/2014	68.4	72.63	4.23	
04/25/2014	68.4	72.63	4.23	
05/25/2014	68.1	72.63	4.53	
06/24/2014	68.5	72.63	4.13	
07/25/2014	68.15	72.63	4.48	
08/23/2014	68.6	72.63	4.03	
09/22/2014	67.88	72.63	4.75	

PCA-E Shallow (Watermaster No. 105)

Northern Coastal

Owner: MPWMD

Aquifer Unit: QTc

Well Type: Monitor

Responsible Party: MPWMD (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/17/2013	62.67	68.51	5.84	
11/07/2013	62.75	68.51	5.76	
12/04/2013	59.72	68.51	8.79	
01/06/2014	62.80	68.51	5.71	
01/30/2014	62.62	68.51	5.89	
03/05/2014	62.41	68.51	6.10	
04/02/2014	62.22	68.51	6.29	
04/28/2014	62.21	68.51	6.30	
05/28/2014	62.42	68.51	6.09	
06/26/2014	62.45	68.51	6.06	
07/28/2014	62.72	68.51	5.79	
08/28/2014	62.72	68.51	5.79	
09/28/2014	62.91	68.51	5.60	

PCA-W Deep (Watermaster No. 104)

Northern Coastal

Owner: MPWMD

Aquifer Unit: Tsm

Well Type: Monitor

Responsible Party: MPWMD (Quarterly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/19/2013	87.11	68.18	-18.93	
03/25/2014	85.49	68.18	-17.31	
06/25/2014	84.89	68.18	-16.71	
09/11/2014	85.62	68.18	-17.44	

PCA-W Shallow (Watermaster No. 103)

Northern Coastal

Owner: MPWMD

Aquifer Unit: QTc

Well Type: Monitor

Responsible Party: MPWMD (Quarterly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/16/2013	58.83	64.22	5.39	
03/25/2014	59.31	64.22	4.91	
06/25/2014	59.13	64.22	5.09	
09/11/2014	59.02	64.22	5.20	

Playa #3 (Watermaster No. 162)

Northern Coastal

Owner: California American Water

Aquifer Unit: QTc

Well Type: Producer

Responsible Party: CAW (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2013	153	56.02	-96.98	well running
10/31/2013	153.6	56.02	-97.58	well running
11/27/2013	154.2	56.02	-98.18	well running
12/26/2013	153.2	56.02	-97.18	well running
01/30/2014	154.1	56.02	-98.08	well running
02/27/2014	54.0	56.02	2.02	
03/27/2014	54.0	56.02	2.02	
04/24/2014	52.3	56.02	3.72	
05/29/2014	160.9	56.02	-104.88	Well On
06/26/2014	54	56.02	2.02	
07/31/2014	167.7	56.02	-111.68	Well On
08/28/2014	54.7	56.02	1.32	
09/25/2014	158.1	56.02	-102.08	Well On

Playa #4 (Watermaster No. 163)

Northern Coastal

Owner: California American Water

Aquifer Unit: QTc/Tsm

Well Type: Monitor

Responsible Party: CAW (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2013	64	52.53	-11.47	
10/31/2013	no access	52.53		
11/27/2013	66.2	52.53	-13.67	
12/26/2013	66.3	52.53	-13.77	
01/30/2014	65.5	52.53	-12.97	
02/27/2014	64.8	52.53	-12.27	
03/27/2014	65.0	52.53	-12.47	
04/24/2014	64.4	52.53	-11.87	
05/19/2014	65.8	52.53	-13.27	
06/26/2014	64.0	52.53	-11.47	
07/31/2014		52.53		Well Destroyed 7/2014

Plumas #4 (Watermaster No. 177)

Southern Coastal

Owner: California American Water

Aquifer Unit: Tsm

Well Type: Producer

Responsible Party: CAW (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2013	225.4	161.48	-63.92	Well Running
10/31/2013	229.5	161.48	-68.02	Well Running
11/27/2013	233.3	161.48	-71.82	Well Running
12/26/2013	227.4	161.48	-65.92	Well Running
01/30/2014	232.0	161.48	-70.52	Well Running
02/27/2014	120.2	161.48	41.28	
03/27/2014	115.0	161.48	46.48	
04/24/2014	113.7	161.48	47.78	

05/29/2014	200.5	161.48	-39.02	Well Running
06/26/2014	113.0	161.48	48.48	
07/31/2014	231.1	161.48	-69.62	Well Running
08/28/2014	113.7	161.48	47.78	
09/25/2014	179.1	161.48	-17.62	Well Running

Plumas Test 1990 (Watermaster No. 124)

Southern Coastal

Owner: MPWMD
Well Type: Monitor
Responsible Party: MPWMD (Monthly)

Aquifer Unit: Tsm
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
11/07/2013	108.08	157.82	49.74	prod on
12/04/2013	108.30	157.82	49.52	prod on
01/06/2014	108.41	157.82	49.41	prod on
01/30/2014	108.98	157.82	48.84	prod on
03/05/2014	108.62	157.82	49.20	
04/08/2014	108.02	157.82	49.80	
04/28/2014	107.72	157.82	50.10	
05/28/2014	108.22	157.82	49.60	prod on
07/01/2014	107.54	157.82	50.28	
07/28/2014	108.3	157.82	49.52	prod on
09/02/2014	107.81	157.82	50.01	
10/01/2014	108.33	157.82	49.49	

Robley Deep (South) (Watermaster No. 140)

Southern Inland

Owner: County of Monterey
Well Type: Monitor
Responsible Party: MPWMD (Quarterly)

Aquifer Unit: Tsm
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/18/2013	392.86	566.44	173.58	
12/23/2013	393.99	566.44	172.45	

03/19/2014	389.73	566.44	176.71
08/13/2014	395.25	566.44	171.19

Robley Shallow (North) (Watermaster No. 139)

Southern Inland

Owner: County of Monterey
Well Type: Monitor
Responsible Party: MPWMD (Quarterly)

Aquifer Unit: QTc
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/18/2013	318.32	599.54	281.22	
12/23/2013	318.70	599.54	280.84	
03/19/2014	320.13	599.54	279.41	
08/13/2014	320.95	599.54	278.59	

Ryan Ranch #11 (Watermaster No. 215)

Southern Inland

Owner: California American Water
Well Type: Producer
Responsible Party: CAW (Monthly)

Aquifer Unit: Tsm
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2013	201	307.59	106.59	
10/31/2013	224	307.59	83.59	
11/27/2013	211	307.59	96.59	
12/26/2013	201	307.59	106.59	
01/30/2014	203	307.59	104.59	
02/27/2014	195	307.59	112.59	
03/27/2014	197	307.59	110.59	
04/24/2014	198	307.59	109.59	
05/29/2014	197	307.59	110.59	
06/26/2014	197	307.59	110.59	
07/31/2014	192	307.59	115.59	
08/28/2014	173	307.59	134.59	
09/25/2014	176	307.59	131.59	

Ryan Ranch #7 (Watermaster No. 213)

Southern Inland

Owner: California American Water

Well Type: Producer

Responsible Party: CAW (Monthly)

Aquifer Unit: Tsm

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2013	244	294	50.00	
10/31/2013	399	294	-105.00	Well Running
11/27/2013	396	294	-102.00	Well Running
12/26/2013	240	294	54.00	
01/30/2014	384	294	-90.00	Well Running
02/27/2014	392	294	-98.00	Well Running
03/27/2014	320	294	-26.00	Well Running
04/24/2014	240	294	54.00	
05/19/2014	242	294	52.00	
06/26/2014	402	294	-108.00	Well Running
07/31/2014	405	294	-111.00	Well Running
08/26/2014	371	294	-77.00	Well Running
09/25/2014	346	294	-52.00	Well Running

Ryan Ranch #8 (Watermaster No. 216)

Southern Inland

Owner: California American Water

Well Type: Producer

Responsible Party: CAW (Monthly)

Aquifer Unit: Tsm

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/26/2013	203	306.86	103.86	
10/31/2013	204	306.86	102.86	
11/27/2013	213	306.86	93.86	
12/26/2013	203	306.86	103.86	
01/30/2014	208	306.86	98.86	
02/27/2014	197	306.86	109.86	

03/27/2014	200	306.86	106.86
04/24/2014	199	306.86	107.86
05/29/2014	200	306.86	106.86
06/26/2014	198	306.86	108.86
07/31/2014	197	306.86	109.86
08/28/2014	188	306.86	118.86
09/25/2014	196	306.86	110.86

Sand City Corp Yard (Watermaster No. 165) — **Southern Coastal**

Owner: City of Sand City

Well Type: Producer

Responsible Party: MPWMD (Monthly)

Aquifer Unit: Qod/Qar/QTc

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2013	42.68	47.25	4.57	1540 us/cm
11/08/2013	42.71	47.25	4.54	1640 us/cm
12/04/2013	42.35	47.25	4.90	1560 us/cm
01/06/2014	42.20	47.25	5.05	1760 us/cm
01/30/2014	41.95	47.25	5.30	1720 us/cm
03/05/2014	42.23	47.25	5.02	1570 us/cm
04/08/2014	42.42	47.25	4.83	1580 us/cm
04/28/2014	42.40	47.25	4.85	1620 us/cm
05/28/2014	42.49	47.25	4.76	1440 us/cm
07/01/2014	42.39	47.25	4.86	
07/28/2014	42.50	47.25	4.75	1630 us/cm
08/28/2014	42.38	47.25	4.87	1500 us/cm
10/01/2014	42.41	47.25	4.84	1640 us/cm

Seaside Golf - Coe (Watermaster No. 189)

Northern Coastal

Owner: City of Seaside

Aquifer Unit: QTc

Well Type: Producer

Responsible Party: City of Seaside (Quarterly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/02/2013	101.07	115.15	14.08	
11/01/2013	101.15	115.15	14.00	
12/01/2013	100.96	115.15	14.19	
01/01/2014	101.12	115.15	14.03	
02/01/2014	101.21	115.15	13.94	
03/01/2014	100.98	115.15	14.17	
04/01/2014	100.97	115.15	14.18	
05/01/2014	100.92	115.15	14.23	
06/01/2014	100.93	115.15	14.22	
07/01/2014	101.04	115.15	14.11	
08/01/2014	101.18	115.15	13.97	
09/01/2014	101.26	115.15	13.89	
10/01/2014	101.37	115.15	13.78	

Seaside Golf - Reservoir (Watermaster No. 187)

Northern Coastal

Owner: City of Seaside

Aquifer Unit: Qc, Tsm

Well Type: Producer

Responsible Party: City of Seaside (Quarterly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/02/2013	392.48	417.44	24.96	
11/01/2013	392.40	417.44	25.04	
12/01/2013	392.48	417.44	24.96	
01/01/2014	392.23	417.44	25.21	
02/01/2014	392.06	417.44	25.38	
03/01/2014	391.68	417.44	25.76	

04/01/2014	391.81	417.44	25.63
05/01/2014	391.71	417.44	25.73
06/01/2014	391.64	417.44	25.80
07/01/2014	392.25	417.44	25.19
08/01/2014	392.02	417.44	25.42
09/01/2014	391.98	417.44	25.46

Seaside Muni #3 (Watermaster No. 174) — **Northern Coastal**

Owner: City of Seaside
Well Type: Producer
Responsible Party: City of Seaside (Monthly)

Aquifer Unit: QTc, Tsm
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/02/2013	271.43	307.19	35.76	
11/01/2013	271.45	307.19	35.74	
12/01/2013	271.21	307.19	35.98	
01/01/2014	271.05	307.19	36.14	
02/01/2014	270.78	307.19	36.41	
03/01/2014	271.02	307.19	36.17	
04/01/2014	270.80	307.19	36.39	
05/01/2014	270.75	307.19	36.44	
06/01/2014	271.13	307.19	36.06	
07/01/2014	270.78	307.19	36.41	
08/01/2014	270.81	307.19	36.38	
09/01/2014	271.14	307.19	36.05	
10/01/2014	270.87	307.19	36.32	

Seaside Muni #4 (Watermaster No. 173) — **Northern Coastal**

Owner: City of Seaside
Well Type: Producer
Responsible Party: City of Seaside (Monthly)

Aquifer Unit: QTc, Tsm
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments

10/01/2013	347.1	312.12	-34.98
11/01/2013	347.05	312.12	-34.93
12/01/2013	347.20	312.12	-35.08
01/01/2014	347.00	312.12	-34.88
02/01/2014	346.80	312.12	-34.68
03/01/2014	346.71	312.12	-34.59
04/01/2014	346.0	312.12	-33.88
05/01/2014	344.7	312.12	-32.58
06/01/2014	344.5	312.12	-32.38
07/01/2014	343.00	312.12	-30.88
08/01/2014	342.1	312.12	-29.98
09/01/2014	342.02	312.12	-29.90

Seca Place (Watermaster No. 138) — **Southern Inland**

Owner: County of Monterey
Well Type: Monitor
Responsible Party: MPWMD (Quarterly)

Aquifer Unit: Tsm
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/18/2013	267.26	427.58	160.32	
12/23/2013	269.31	427.58	158.27	
03/19/2014	262.23	427.58	165.35	
08/13/2014	269.08	427.58	158.50	

Target Well (Watermaster No. 152) — **Northern Coastal**

Owner: DBO Development
Well Type: Producer
Responsible Party: MPWMD (Monthly)

Aquifer Unit: QTc/Tsm
All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2013	60.22	44.42	-15.80	
11/07/2013	60.14	44.42	-15.72	
12/04/2013	60.21	44.42	-15.79	

01/07/2014	60.69	44.42	-16.27
01/30/2014	60.35	44.42	-15.93
03/06/2014	60.29	44.42	-15.87
04/08/2014	60.24	44.42	-15.82
04/28/2014	59.72	44.42	-15.30
05/28/2014	59.98	44.42	-15.56
07/01/2014	60.03	44.42	-15.61
07/28/2014	60.19	44.42	-15.77
08/28/2014	60.08	44.42	-15.66
10/01/2014	60.18	44.42	-15.76

Toro #3 (Watermaster No. 303)

Southern Inland

Owner: Cal-Am

Aquifer Unit: QTc

Well Type: Producer

Responsible Party: Cal-Am (Monthly)

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/31/2013	205	449	244.00	
11/27/2013	205	449	244.00	
12/26/2013	206	449	243.00	
01/30/2014	206	449	243.00	
02/27/2014	204	449	245.00	
03/27/2014	205	449	244.00	
04/24/2014	205	449	244.00	
05/29/2014	205	449	244.00	
06/26/2014	208	449	241.00	
07/31/2014	202	449	247.00	
08/28/2014	208	449	241.00	
09/25/2014	209	449	240.00	

York Rd-West (Watermaster No. 137)

Southern Inland

Owner: County of Monterey
Well Type: Monitor
Responsible Party: MPWMD (Quarterly)

Aquifer Unit: Tsm

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
09/18/2013	317.54	490.28	172.74	
12/20/2013	317.47	490.28	172.81	
03/18/2014	318.60	490.28	171.68	
08/05/2014	320.66	490.28	169.62	

York School 2001 (Watermaster No. 212)

Southern Inland

Owner: York School
Well Type: Producer
Responsible Party: MPWMD (Monthly)

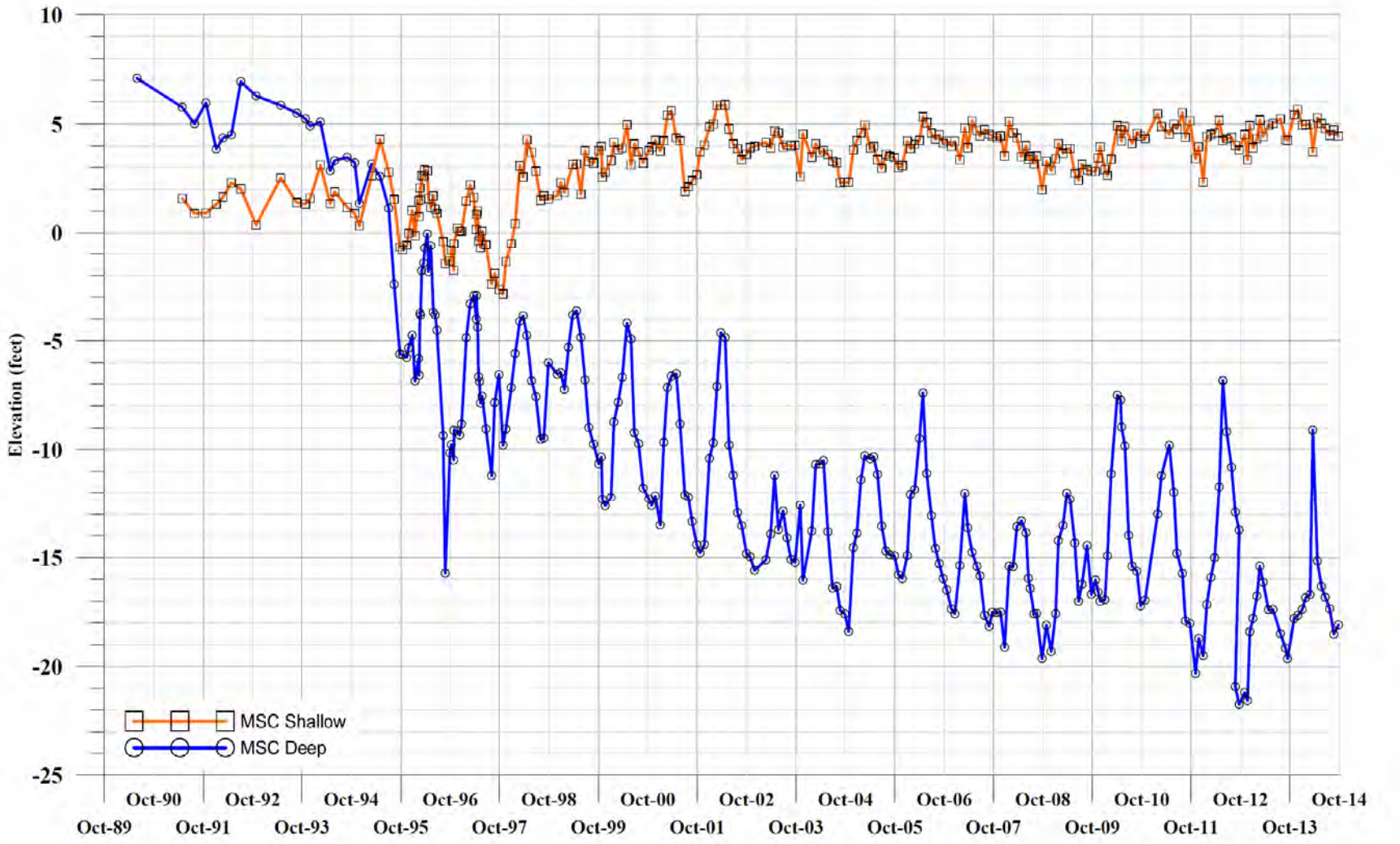
Aquifer Unit: QTc/Tsm

All Values in Feet

Date Measured	Depth To Water	Ref Point	Water Elevation	Comments
10/01/2013	224.44	384.3	159.86	
11/07/2013	221.35	384.3	162.95	
12/04/2013	222.22	384.3	162.08	
01/30/2014	221.71	384.3	162.59	
03/05/2014	220.8	384.3	163.50	
04/09/2014	223.08	384.3	161.22	
04/30/2014	224.44	384.3	159.86	
05/28/2014	238.20	384.3	146.10	
07/01/2014	224.21	384.3	160.09	
07/19/2014	229.22	384.3	155.08	
09/02/2014	274.00	384.3	110.30	production well on
09/29/2014	242.16	384.3	142.14	

Appendix 3

Selected Hydrographs



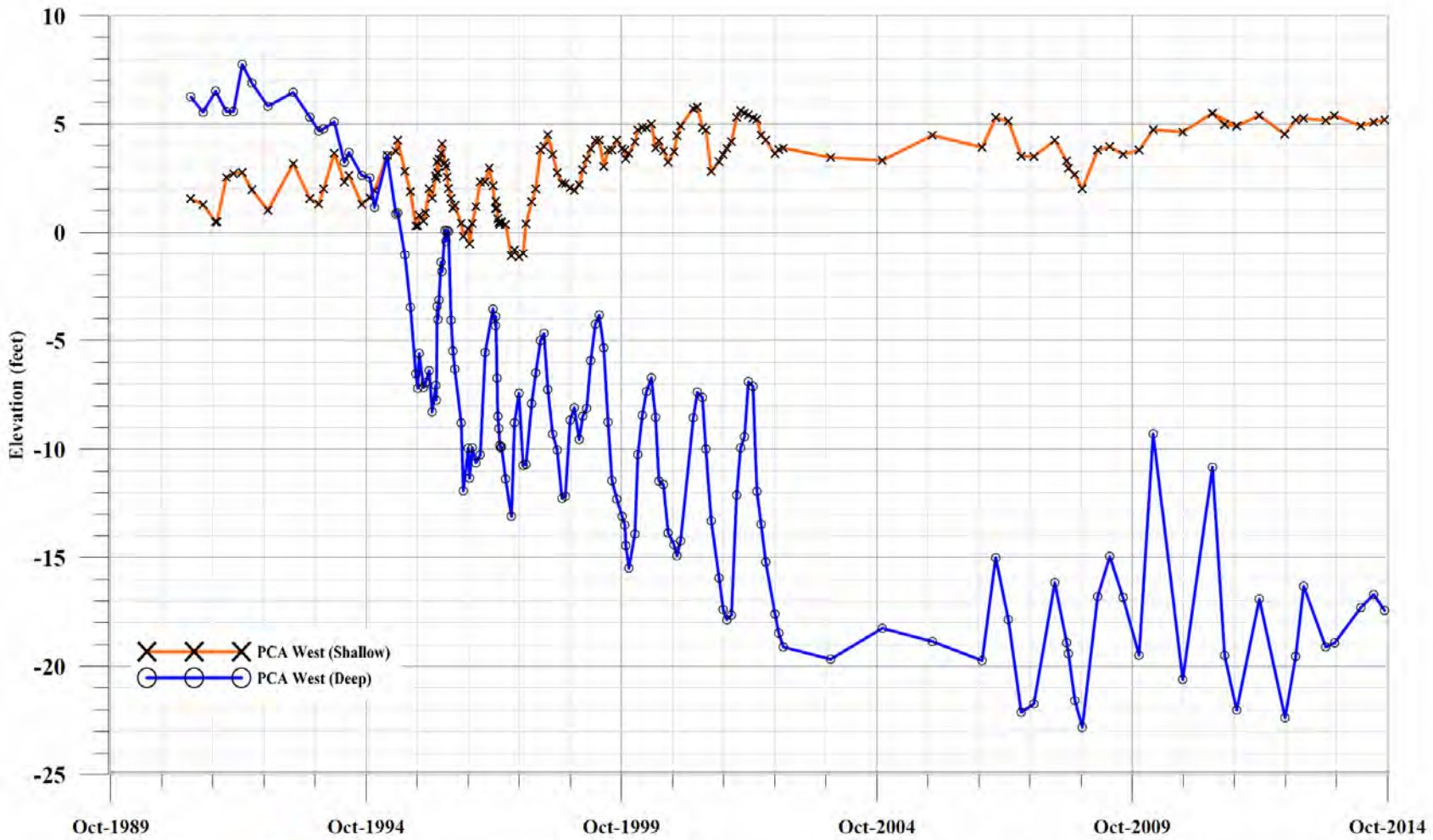
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

MSC-Shallow (15S/1E-15N1)

Screened from 490-680 in the Paso Robles Formation (QTp)
Wellhead Elevation 80.1 MSL
DWR Driller Log No. 338413

MSC-Deep (15S/1E-15N2)

Screened from 810-850 in the Santa Margarita Formation (Tsm)
Wellhead Elevation 80.29 MSL
DWR Driller Log No. 338425
Datasource: MPWMD



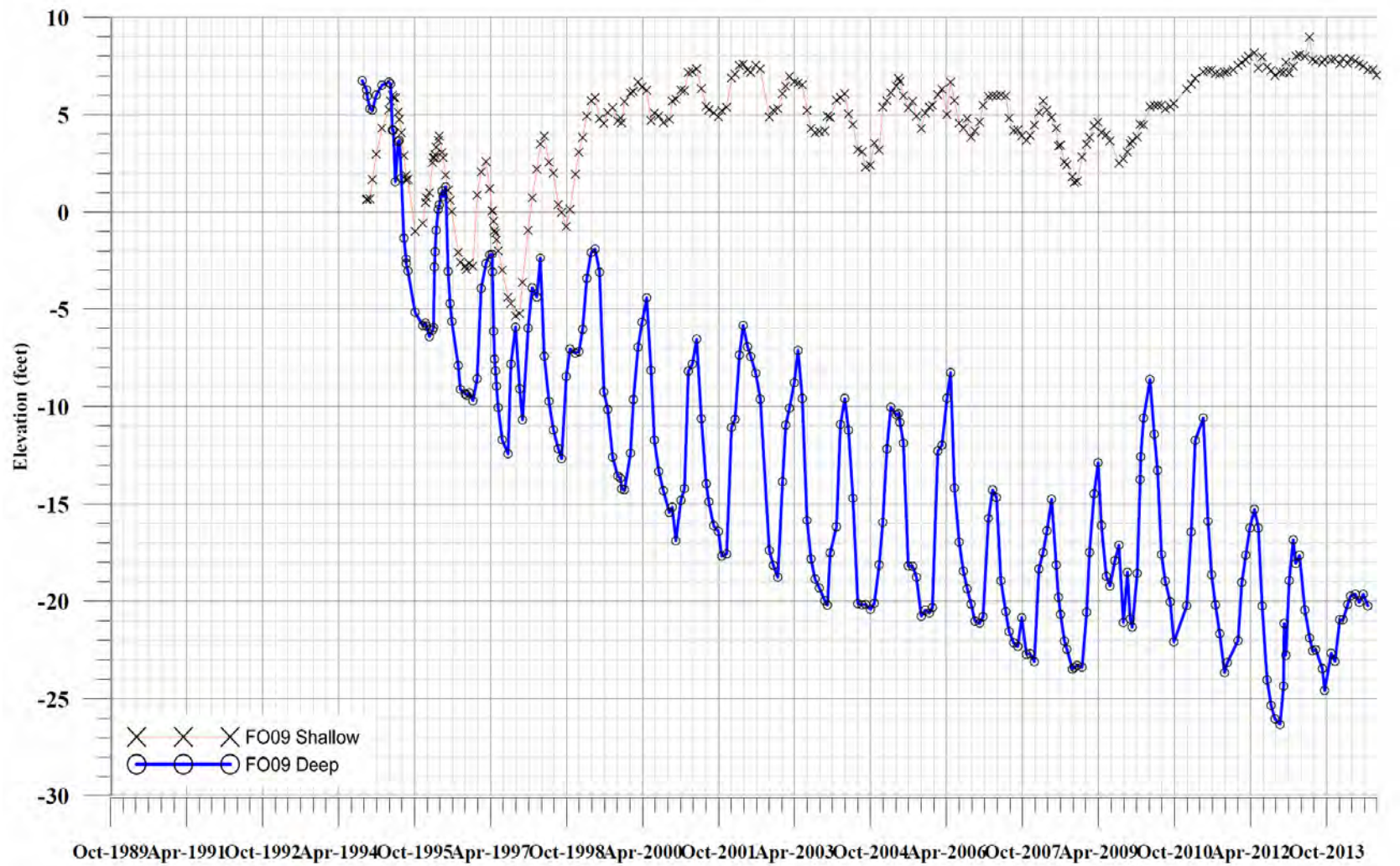
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

PCA West (Deep) (15S/1E-15F2)

Screened from 825-875 in the Santa Margarita Sandstone (Tsm)
Wellhead Elevation 65.18 MSL
DWR Driller Log No. 338401
Datasource: MPWMD

PCA West (Shallow) (15S/1E-15F1)

Screened from 525-575 in the Paso Robles Formation (QTp)
Wellhead Elevation 64.22 MSL
DWR Driller Log No. 338400
Datasource: MPWMD



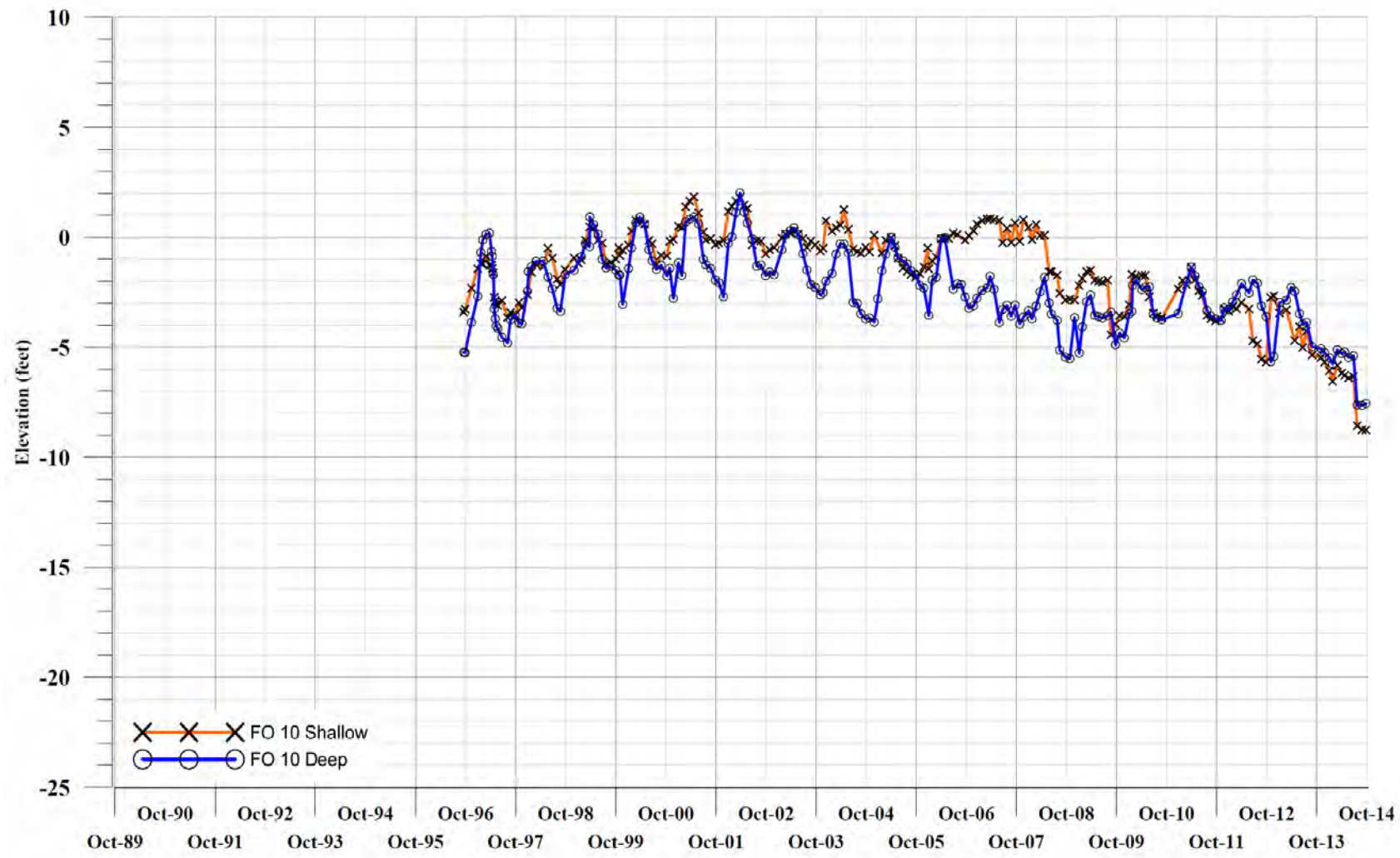
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

FO-09 (shallow) (15S/1E-11Pa)

Screened from 610-650 in the Paso Robles (QTp)
Wellhead Elevation 118.89 MSL
DWR Driller Log No. N/A
Datasource: MPWMD

FO-09 (Deep) (15S/1E-15Pb)

Screened from 790-830 in the Santa Margarita Formation (Tsm)
Wellhead Elevation 188.85 MSL
DWR Driller Log No. N/A
Datasource: MPWMD



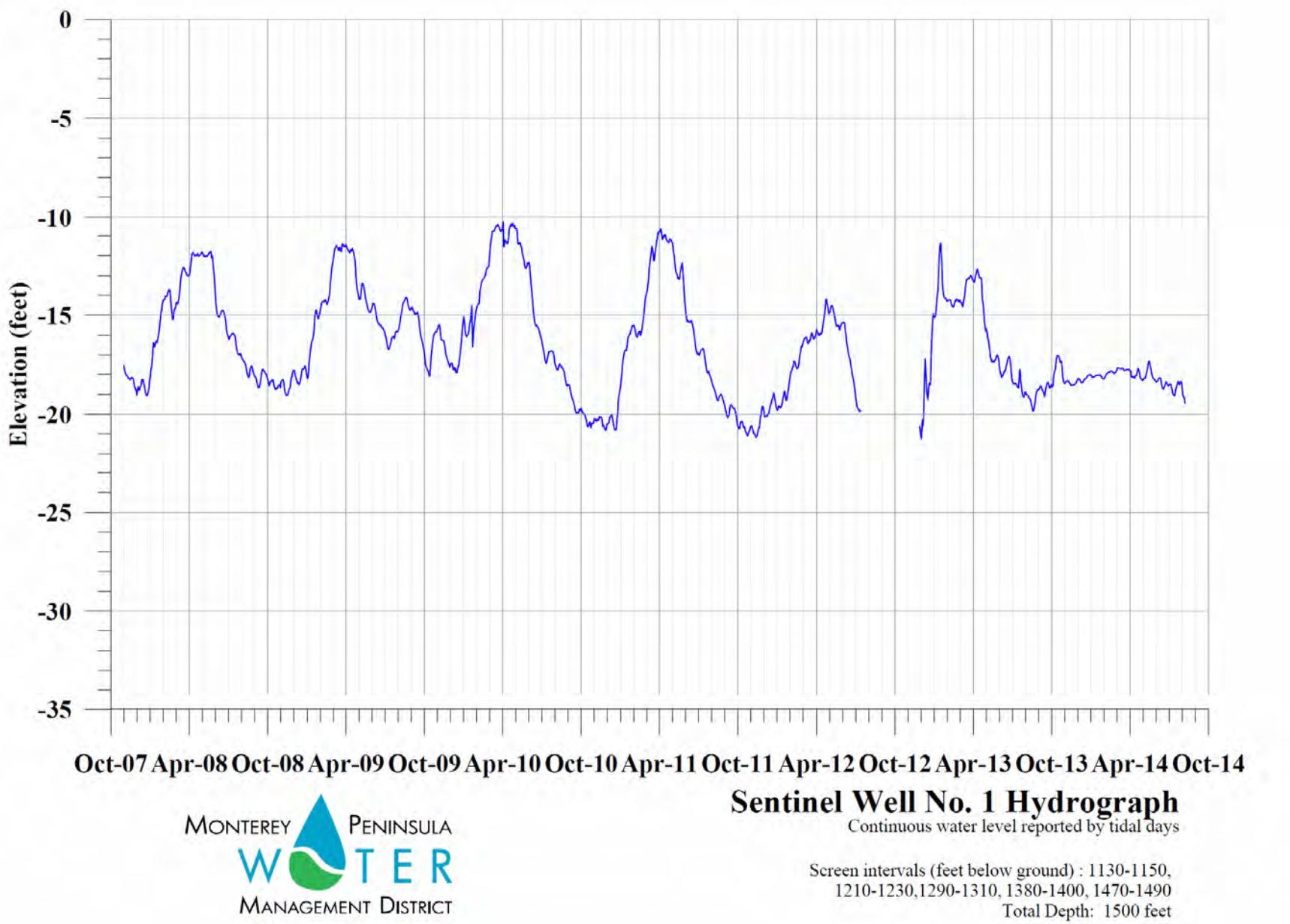
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

FO-10 (Shallow) (15S/1E-11Fa)

Screened from 480-500 in the Paso Robles (QTp)
Wellhead Elevation 200.85 MSL
DWR Driller Log No. N/A
Datasource: MPWMD

FO-10 (Deep) (15S/1E-15Fc)

Screened from 790-830 in the Santa Margarita Formation (Tsm)
Wellhead Elevation 201.03 MSL
DWR Driller Log No. N/A
Datasource: MPWMD

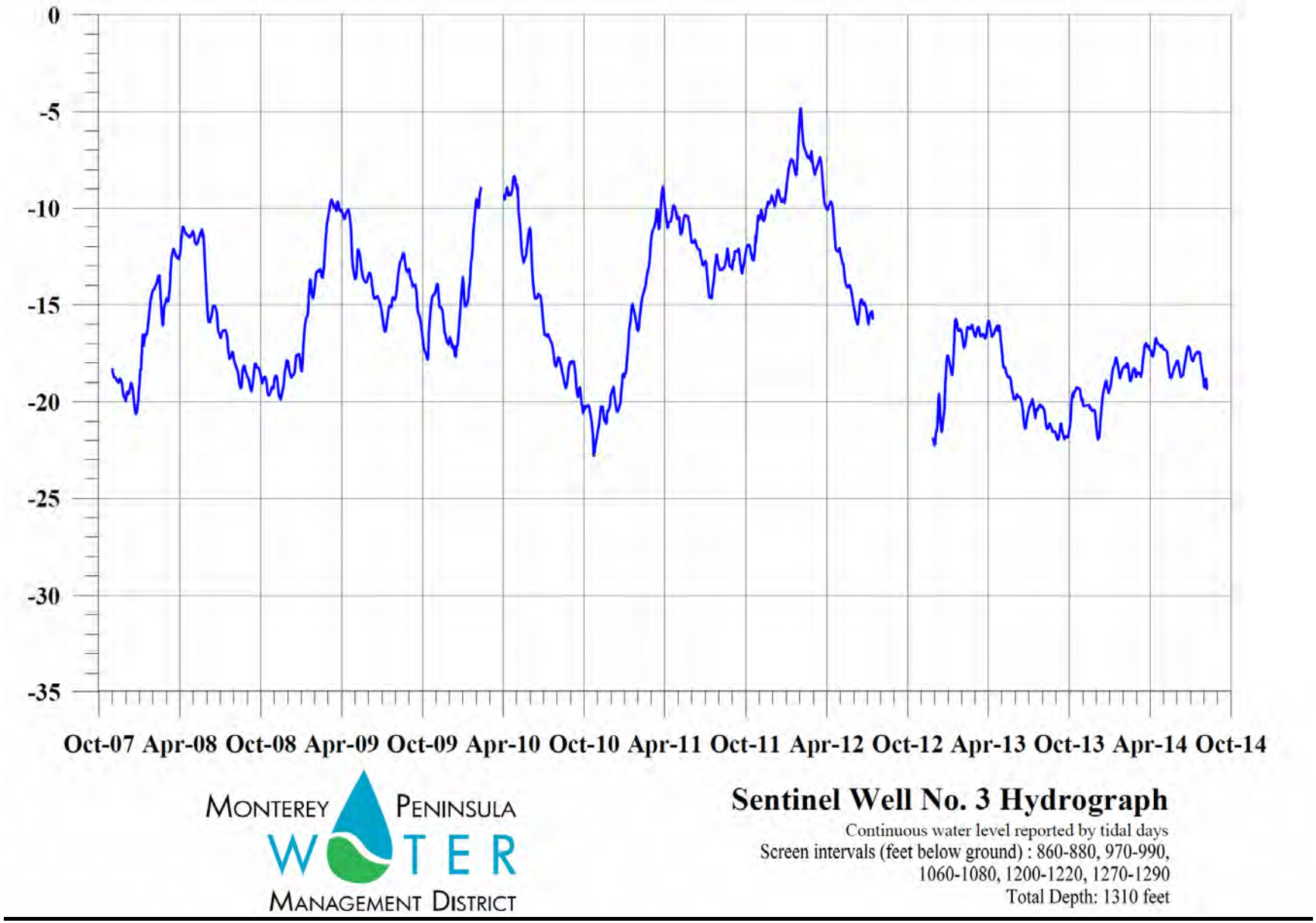

0
-5
-10
-15
-20
-25
-30
-35
Elevation (feet)
Oct-07 Apr-08 Oct-08 Apr-09 Oct-09 Apr-10 Oct-10 Apr-11 Oct-11 Apr-12 Oct-12 Apr-13 Oct-13 Apr-14 Oct-14
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT
Sentinel Well No. 1 Hydrograph
Continuous water level reported by tidal days
Screen intervals (feet below ground) : 1130-1150, 1210-1230,1290-1310, 1380-1400, 1470-1490
Total Depth: 1500 feet

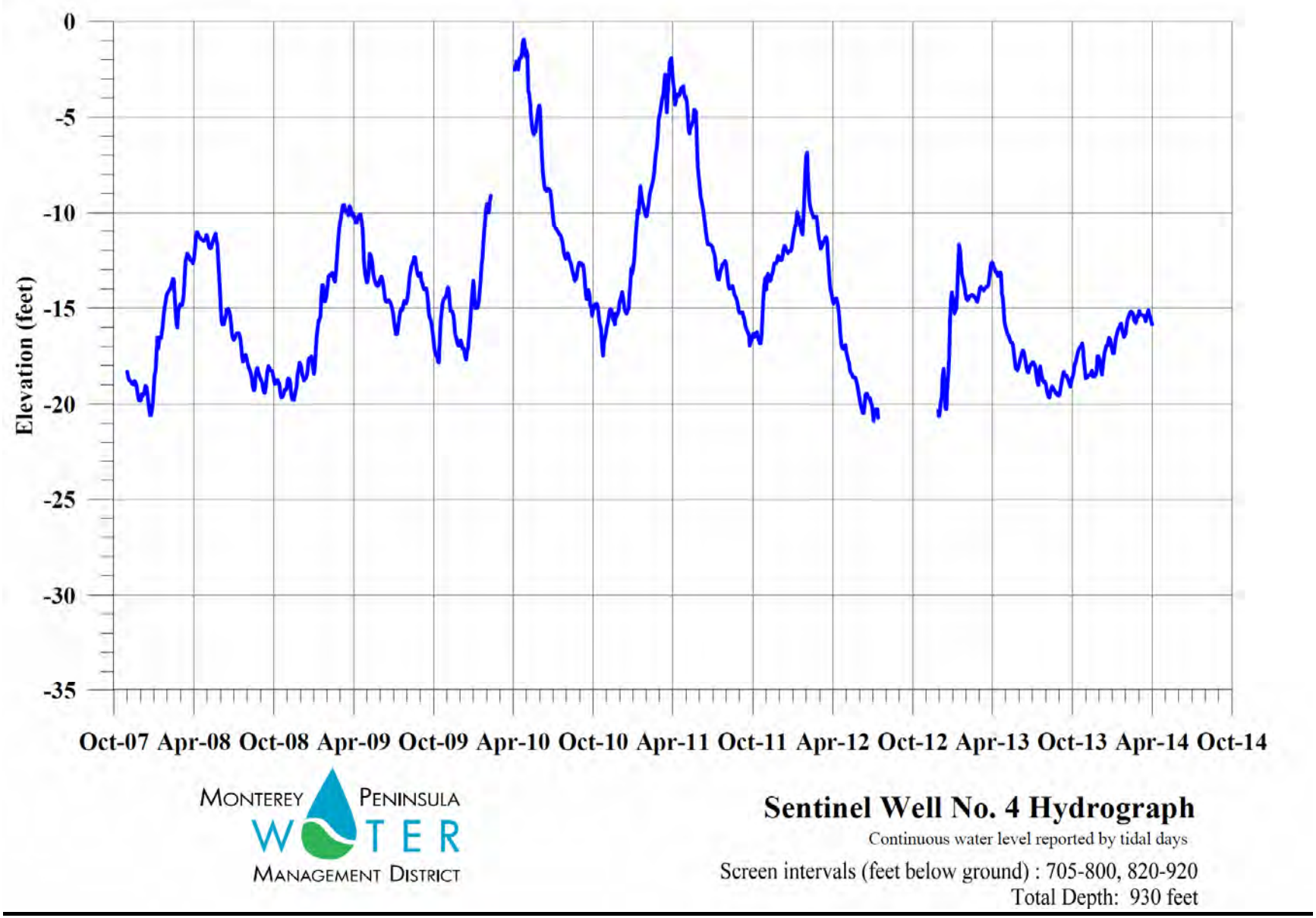
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

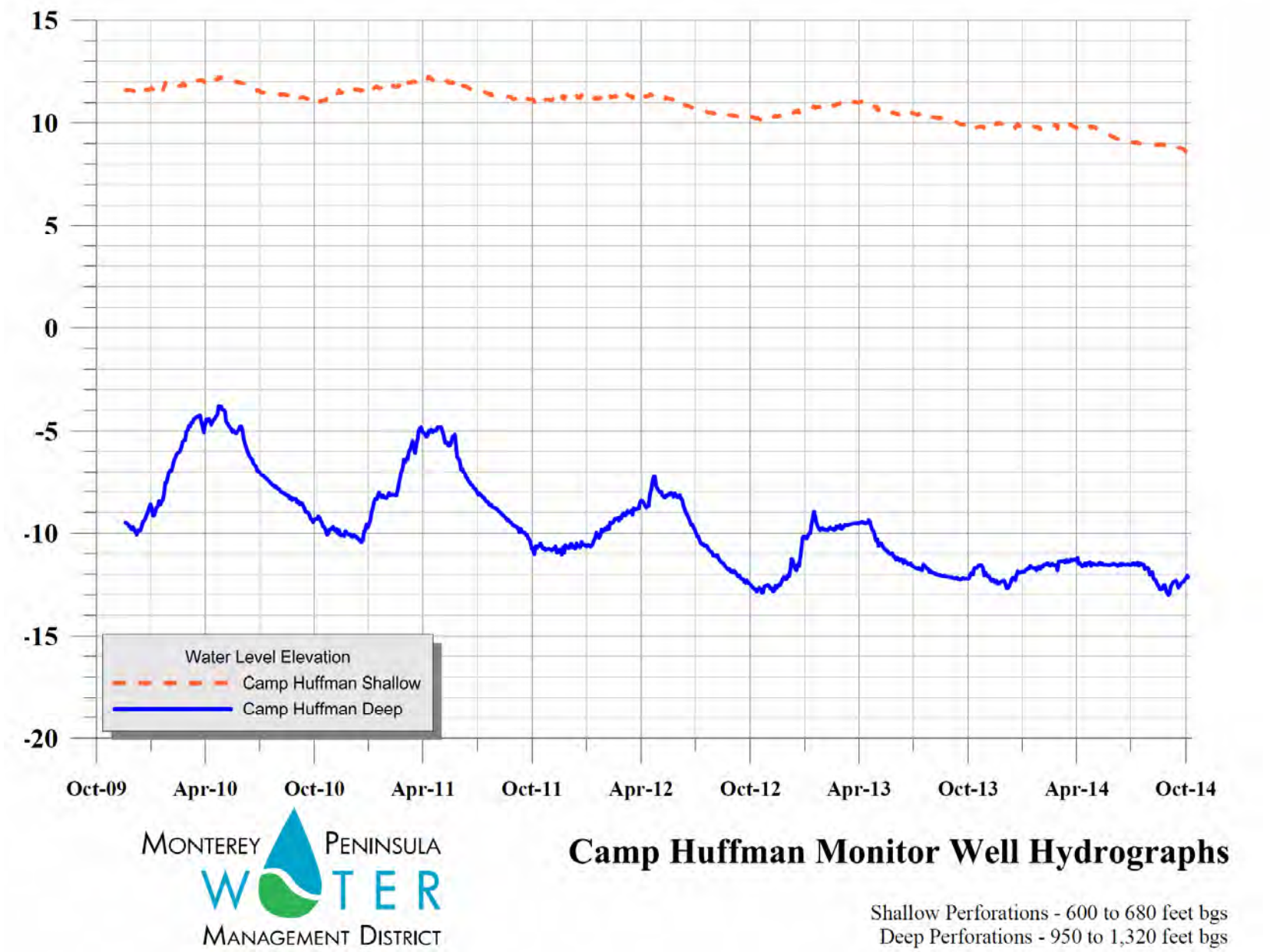
Sentinel Well No. 2 Hydrograph

Continuous water level reported by tidal days

Screen intervals (feet below ground) : 990-1010, 1070-1090, 1140-1160, 1230-1250, 1370-1390, 1460-1480


0
-5
-10
-15
-20
-25
-30
-35
Oct-07 Apr-08 Oct-08 Apr-09 Oct-09 Apr-10 Oct-10 Apr-11 Oct-11 Apr-12 Oct-12 Apr-13 Oct-13 Apr-14 Oct-14
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT
Sentinel Well No. 3 Hydrograph
Continuous water level reported by tidal days
Screen intervals (feet below ground) : 860-880, 970-990, 1060-1080, 1200-1220, 1270-1290
Total Depth: 1310 feet


0
-5
-10
-15
-20
-25
-30
-35
Elevation (feet)
Oct-07 Apr-08 Oct-08 Apr-09 Oct-09 Apr-10 Oct-10 Apr-11 Oct-11 Apr-12 Oct-12 Apr-13 Oct-13 Apr-14 Oct-14
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT
Sentinel Well No. 4 Hydrograph
Continuous water level reported by tidal days
Screen intervals (feet below ground) : 705-800, 820-920
Total Depth: 930 feet


15
10
5
0
-5
-10
-15
-20
Oct-09
Apr-10
Oct-10
Apr-11
Oct-11
Apr-12
Oct-12
Apr-13
Oct-13
Apr-14
Oct-14
Water Level Elevation
Camp Huffman Shallow
Camp Huffman Deep
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT
Camp Huffman Monitor Well Hydrographs
Shallow Perforations - 600 to 680 feet bgs
Deep Perforations - 950 to 1,320 feet bgs